

# RCRA FACILITY INVESTIGATION PHASE I REPORT

# ENVIRITE CORPORATION THOMASTON, CONNECTICUT

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<u>APPENDIX B</u> MINGES REPORT

# ENGINEERING REPORT

on
PROPOSED
REGIONAL TREATMENT FACILITY

To Serve
THE METAL FINISHING INDUSTRY

January 31, 1975

Prepared for

Liqwacon Corporation

Prepared by

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# CONTENTS

SECTION A INTRODUCTION	
General	A-1
Type of Industry Serviced	A-1
Type of Proposed Plant	A <b>-</b> 2
Ownership of Plant	A-2
Staffing	A-3
Delivery of Wastes	A-3
Effluent Disposal	A-4
Solids Disposal	A -5
SECTION B DESIGN CRITERIA	
General	B <b>-1</b>
Nature and Characteristics of Raw Wastes	B-1
Volume of Waste	B-3
Expected Effluent Characteristics	B <b>-</b> 3
Effect of Effluent on Town of Thomaston Plant	B <b>-</b> 4
Operating Hours	B <b>-</b> 5
Expected Volume and Characteristics of Solids	
Produced	B <b>-</b> 6
SECTION C PROCESS DESCRIPTIONS	
General	C-1
Process Flow Diagrams	C-1
Acid-Alkali Process	C-1
Chromic Acid Process	C <b>-</b> 2
Copper Cementation Process	C <b>-</b> 3
Cyanide Process	C <b>-</b> 3
Sludge Handling Process	C-4
Resource Recovery	C <b>-</b> 4
Quality Control	C <b>-</b> 5
SECTION D PROPOSED FACILITIES	
General	D <b>-1</b>
Location	D-1
Site Conditions	D-1
Site Layout	D <b>-</b> 5
Building Design	D <b>-</b> 5
Receiving and Storage Facilities	D <b>-7</b>
Acid-Alkali Treatment Facilities	D <b>-</b> 9
Chromic Acid Treatment Facilities	D <b>-</b> 9
Copper Cementation Recovery Facilities	D <b>-</b> 9
Cyanide Treatment Facilities	D-10
Studge Downtoning Excitities	D-1

# CONTENTS (Con't)

SECTION D PROPOSED FACILITIES (Cont'd)	
Sludge Disposal	D-12
Air Pollution Considerations	D-13
Housekeeping and Spillage Control	D-14
Safety	D <b>-1</b> 5
Miscellaneous Supporting Equipment	D-16
Utilities	D <b>-1</b> 6
Chemicals	D-17

#### SECTION A - INTRODUCTION

#### General

This engineering report describes a proposed Regional Treatment

Facility for the processing of concentrated residues and sludges resulting

from treatment of metal finishing wastes and related pollutants. Central

waste treatment plants have been successfully demonstrated by various

private companies to be a useful concept in the management of hazardous

and difficult to handle industrial wastes. The concept is further supported

by studies conducted by the Federal Environmental Protection Agency and

various State authorities. A preliminary approval letter from DEP approving

the concept is included in the Appendix.

The purposes and objectives of the proposed plant are to provide the metal finishing industry and related sources with a safe, controlled, reliable, and economic facility for the treatment and disposal of hazardous wastes, residues, sludges and similar materials which are difficult and costly to dispose of at individual plants and which can be effectively and economically handled at a specially designed central facility.

#### Type of Industry Serviced

The types of industry served by the proposed plant would be primarily metal plating, finishing, etching, and metal producing industries and that portion of the chemical industry which generates pollutants of similar nature. A large concentration of such sources is located in Connecticut and neighboring states.

# Type of Proposed Plant

The plant would incorporate some of the latest advances in treatment technology along with methods and procedures that are widely recognized by treatment authorities. More specifically, the plant would consist of vessels for receiving and storing waste; reactors for neutralization, precipitation, detoxification, and chemical processing; sludge dewatering, effluent polishing, and solids landfilling; and special stations for the recovery of valuable resources. These operations will be supported with a modern laboratory and the staff for technical, transportation, and business functions. It is proposed to build the plant in central Connecticut.

The facilities and operations would be organized so that the various types of wastes can be treated in a manner appropriate to the waste characteristics. Generally the plant would be described as a batch treatment plant although some of the operations may be characterized as semi-batch in that selected batches would be continuously fed through specialized equipment. This design concept was selected to insure that all wastes will receive proper treatment and so that each batch can be monitored before release to the Naugatuck River or to the public sewer.

#### Ownership of Plant

The plant would be privately owned by Liqwacon Corporation. The management, the firm, and their consultants have had prior experience with plants of similar design and function. International Hydronics of Princeton, New Jersey and staff members of Drexel University, Philadelphia, Pennsylvania and the University of Syracuse, New York, have acted as consultants for various stages of the project.

Liquacon Corporation is primarily owned by Yarway, Inc., of Bluebell, Pennsylvania. Yarway Corporation is a large U.S. and international supplier of valves, steam fittings, pumps, and industrial equipment. As the principal stockholder in Liquacon, Yarway in effect guarantees the financial dealings and responsibilities of Liquacon and has representation on the Liquacon Board of Directors.

# Staffing

It is estimated that approximately twenty employees will be needed for operations at plant capacity. For example:

1 - Plant Manager1 - Operations Manager1 - Sales9 - Hourly Employees

1 - Secretary 1 - Maintenance

1 - Accounting 1 - Technical Manager

1 - Dispatcher 3 - Technicians

Total - 20

# Delivery of Waste

Most wastes will be transported to the plant in 5,000 gal. bulk tankers. Others will be shipped on flatbed or box trailers that are typically used to transport drums and miscellaneous containers. All shipments are furnished with source, destination, commodity identification, bills of lading, and are placarded with Department of Transportation labels such as "Corrosives", "Acid", "Dangerous", etc.

Transport will be furnished by licensed carriers, by the waste generator, or by Liqwacon Corporation. Such equipment and operations will conform to State and/or Federal Department of Transportation regulations, placarding,

and equipment construction. Trailers may be lined with special coatings to resist corrosive attack and may be of stainless steel, carbon steel, and other constructions depending upon service and regulations.

In general, mixtures of various wastes will not be hauled in the same trailer in order to preserve segregation for storage and assurance of isolation to meet the intended chemical processing. When the wastes arrive at the plant they will be sampled to confirm they are consistent with previous samples, test results, and representations made at the time of sale of the services. This precaution protects against the possibility of mixing incompatible wastes in the storage tanks or processing facilities.

#### Effluent Disposal

Plant effluent will be discharged only after toxic materials are removed or destroyed and laboratory tests indicate the liquid complies with either river or sewer discharge criteria. Effluents which meet the criteria for Naugatuck River discharge, a Class "C" stream, will be discharged to the river via a pipeline and totalizing meter. River discharge criteria are shown in the draft of a discharge permit issued by DEP (See Appendix). It is the design intent to meet the river discharge criteria whenever possible.

Certain batches of effluent will not meet established criteria for discharge to the Naugatuck River due to the presence of organic contaminants exhibiting high COD (or TOC) or other constituents. In such cases, discharge will be made to the sanitary sewer of the Town of Thomaston. The chemical and physical characteristics which must be met for sewer discharge are covered elsewhere in this report as are the steps which will be taken to eliminate or

minimize the probability of any municipal sewer or sewage treatment plant damage or process upset.

The plant effluent will come from a single point in the plant, namely, the filtrate storage tank. This will be monitored and releases therefrom will be controlled at the highest levels of plant authority.

#### Solids Disposal

Chemical processing through the plant's reactors will result in the production of detoxified sludges and solids. These solids will be separated from the liquid phase with a precoat rotary vacuum filter and deposited in a special land reclamation area located on the plant site.

#### SECTION B - DESIGN CRITERIA

#### General

The design of the facility is primarily one of batch treatment except for the cementation and recovery of copper and the electrolytic oxidation of cyanide. These are semi-continuous inasmuch as batches of feedstock will be processed on a continuous basis.

Equipment sizing has been selected for economic treatment utilizing unit operations conventionally employed to accomplish the processes required for waste stabilization.

#### Nature and Characteristics of Raw Wastes

It is difficult to generalize on the nature of the raw wastes to be handled. It is the intent to initially provide for handling the more common types of wastes with future additions of facilities if the demand is sufficient to economically justify them.

The wastes to be accepted are generally the end residues and concentrates for which there is no further economic use by the generator, yet they present a definite disposal problem to the user and the environment. Typical wastes are spent process solutions; contaminated or spoiled baths; rinse waters; liquids generated by the cleaning of air, water, or equipment; unused or unreacted processing chemicals; and sludges which cannot be disposed of at recognized and controlled disposal sites because of miscellaneous contaminants. Frequently these waste materials have resulted in the pollution of underground and surface waters; thereby becoming a continuing threat and source of concern to pollution abatement agencies. The proposed plant will provide an urgently needed

facility to handle these wastes in an environmentally acceptable manner.

The proposed plant would be designed to receive and treat wastes of the following types:

Cyanides
Alkaline Waste
Spent Etchants
Metal Cleaning Waste
Polishing Solutions

Spent Plating Baths Spent Etchant Baths Metal Pickling Waste Contaminated Acids Sludges with Metals

In general the plant would receive the more concentrated forms of the above wastes. These will contain heavy metals, organics, complexing agents, wetting agents, acids, and traces of emulsified or dissolved oils. These properties and past experience indicate that the raw waste characteristics will normally fall into the following ranges:

specific gravity	-	0.9 - 1.6
color	-	light brown, generally an absence of strong dyes and pigments
odor	-	very slight, usually none, dependent upon organic contamination
organic content	-	varied, estimate maximum COD at 10,000 mg/l, BOD at 5,000 mg/l
biological treatability	-	can be treated effectively, may require pretreatment
acid concentrations	-	0-70% by weight, typically common inorganic acids
alkali concentrations	-	0-25% by weight
cyanide concentrations	-	trace to 10% by weight
free or soluble oils	-	less than 100 mg/l
metals	-	trace to 25% by weight

phenols	-	typically less than 100 ppm
sludges	-	pumpable, 0.1-10% by weight

#### Volume of Waste

Conservative market surveys indicate that the daily quantities of wastes generated in the area which can be economically served by the plant are as follows:

Туре	Gallons per Day
Acids Alkaline Wastes Metal Bearing for Recovery Cyanide Miscellaneous and Drums	30,000 5,000 5,000 5,000
	50,000 Total

The wastes listed above contain the usual metals found in plating and finishing wastes, such as copper, iron, zinc, chromium, nickel, and minor quantities of lead, cadmium, tin, etc. Most of the solutions contain the metals as salts in acid, although some are alkaline. Other metal wastes will be presented as precipitated sludges, primarily hydroxides or hydrated metal oxides at varying concentrations.

Some of the alkaline cleaning wastes may contain small amounts of emulsified oil but waste oils or wastes containing high oil concentrations will not be accepted at the plant. Some wastes will require detoxification by a variety of chemical processing techniques.

# Expected Effluent Characteristics

Effluent characteristics will meet the criteria for discharge to either the Naugatuck River or the Town of Thomaston sewage plant. No discharges

will be made by either mode without first monitoring the characteristics of the effluent batch in accordance with quality control procedures outlined later. The effluent quality criteria will meet the requirements of the State DEP for Naugatuck River discharges and the Town of Thomaston for sewer discharges. The effluent limitations are included in the Appendix and these limitations, or the latest revisions thereto, will be used as plant effluent quality criteria. The expected effluent quality for discharge to the Town of Thomaston sewers is as follows:

Color - light brown liquid

Appearance - water

Odor - very slight (organics present)

pH Range - 6 - 9

Total Solids - 6% by wt.

Dissolved Solids - 5.8% by wt. (dissolved inorganic salts)

Suspended Solids - 0.2% by wt.

Chemical Oxygen Demand - 10,000 mg/l (4167 lb/day)

Biochemical Oxygen Demand - 5,000 mg/l (2083 lb/day)

Sulfates (inc. in Diss. Solids) - 4% by weight

Heavy Metals - 1 mg/l for each

Cyanide, Oxidizable - 1 mg/l

Chromium, hexavalent - 1 mg/l

Floating or visible oil - none

Phenols - 10 mg/l

#### Effect of Effluent on Town of Thomaston Plant

The effect of the effluent on the Thomaston treatment plant was studied by Cascio, Tuttle Engineering, Inc. A copy of their report is included in the Appendix. The report is favorable to the proposed effluent discharge but calls attention to certain special considerations relative to volume, BOD, COD, sulfates, sulfides and chlorine demand. All existing requirements of the present Town of Thomaston plus any special future requirements will be

complied with. As a minimum the following special provisions will be made to insure that the municipal sewers or treatment plant are not damaged or upset by the proposed effluent:

- 1. Maintain a complete laboratory for the evaluation of all wastes considered for treatment and assess biotoxicity via respiration techniques and simulated activated sludge testing. Only treatable wastes to be discharged to the sewer.
- 2. Maintain adequate records and laboratory testing programs to thoroughly characterize the effluent for suitability for sewer discharge.
- 3. Meter the quantity of waste discharged to the sewer and regulate to times and volumes that are reasonable and as specified by the sewage authority.
- 4. Accept inspections and sampling by the sewage authority.
- 5. Accept limits on strength and total lbs. of BOD to be discharged within a specified time period.

# Operating Hours

Most processing and waste receipts will be conducted during the dayshift (8 AM - 4:30 PM) with a minimum number of operations employees on the 4 PM - 12 PM night shift. A third shift is not planned at this time.

The plant will normally be operated Monday through Friday of each week. Occasionally, it may be necessary to conduct Saturday and Sunday operations depending upon customer and transportation requirements.

#### Expected Volume and Characteristics of Solids Produced

The solids produced at the plant will be dewatered to at least 30 per cent solids on a pre-coat vacuum filter. At design capacity and under the most unfavorable input of acids approximately 25,000 gallons per day of unfiltered residues will be produced containing four per cent suspended solids or 9,225 pounds per day dry solids. Adding 10 per cent for pre-coat gives 10,148 pounds per day dry solids to be disposed of. The daily sludge cake production at design capacity will be about 15 cubic yards. Sludge cake production will be highly dependent upon the type of acid processed and at times could be considerably less than 15 cubic yards per day.

The character of the sludge will be that of a very loose crumbly loam or soil. It will be very easily handled and will have no free moisture.

When dried further on exposure in the fill area no dust problem will occur.

#### SECTION C - PROCESS DESCRIPTIONS

#### General

Because of the variety of raw waste characteristics expected several different specific treatment processes will be employed to treat the wastes received. Each batch of waste received will be designated to receive one or more types of treatment depending on its raw characteristics. Flexibility in the plant will be provided to facilitate the use of various combinations of treatment processes for any given batch, particularly for the more common combinations. By use of strict quality control, however, any necessary modifications to usual procedures will be instituted as dictated by raw waste characteristics and treatment results.

#### Process Flow Diagrams

A process flow diagram is included in the Appendix. The diagram shows each treatment process and the commonly expected interconnections. The principal waste treatment flow diagrams include:

- 1. Acid-Alkali Process
- 2. Chromic Acid Process
- 3. Copper Cementation Process
- 4. Cyanide Process
- 5. Sludge Handling Process

Each process is shown on the schematic and is discussed in detail below:

# 1. Acid-Alkali Process

This process is basically neutralization of acids and alkalies to a pH value of about 8.5. Batch reactors will be used to process wastes

requiring neutralization, heavy metal precipitation, or other chemical processing depending upon the nature of the waste. A typical processing procedure for an acidic waste, containing heavy metals, would consist of adding alkaline waste and/or lime slurry to the reactor; pumping in acid below the surface of the alkaline mixture; adjusting the pH to 7.0 - 8.0; allowing 30 minutes for equalization and agitation; sampling and adding a stoichometric quantity of alkaline sulfide; and finally readjusting the pH to 8.0 - 9.0 while removing residual sulfide. Final criteria for the liquid phase would be:

pH - 8.0-9.0 Heavy Metals - to meet all discharge criteria Residual Sulfide - trace

After the laboratory confirms that each batch has been treated to specifications the resultant slurry would be pumped to a storage tank to await vacuum filtration as shown on the sludge disposal schemal

#### 2. Chromic Acid Process

Wastes containing hexavalent chromium will be treated for reduction to the trivalent form before final neutralization and precipitation. Reducing agents such as sulfur dioxide, sodium metabisulfite, and the effluent from the copper cementation process will be used depending on cost, availability, and production scheduling.

The hexavalent chromium reduction can be performed in the chromic acid storage tank. Normally the treatment will be carried out to reduce hexavalent chromium to less than 0.05 mg/l.

# 3. Copper Cementation Process

Acids and etchant wastes (ferric chloride, ammonium persulfate, or chromic acid) containing from 0.5 to 10% by wt. of copper will be treated in the copper cementation system. The copper will be cemented out of solution as the free metal by substitution of a lesser value metal such as iron or aluminum. This process has been successfully demonstrated and used by other reclaiming facilities.

A prime benefit of the process occurs when iron scrap is used as a reactant. Liberated ferrous ions reduce hexavalent chromium to the trivalent state, thereby eliminating a required treatment step for chromic acid processing.

The process involves a rotating reactor cylinder into which are introduced the copper bearing waste, scrap iron and an auxiliary acid as required. The reactor effluent is filtered and settled and the copper recovered. The effluent will be treated further by the acid-alkali or chromic acid processes described above.

#### 4. Cyanide Process

Concentrated cyanides, 0.1 - 10% by weight, will be initially treated with a proprietary electrolytic destruction method. Any residual cyanide after electrolytic treatment (1,000 mg/l or less) will be destroyed by conventional two-stage oxidation methods using sodium hypochlorite or chlorine gas in a separate operation.

All reactions are carried out under alkaline conditions and the equipment ventilated to remove any off gases in a packed tower fume scrubbing system.

Endpoint criteria for cyanide destruction (by chlorination or complete electrolytic destruction) dictates a pH greater than 8.0 and free cyanide less than 0.05 to 1.0 mg/l, depending upon the intended discharge.

Cyanide free liquid will be discharged to a reactor for neutralization or filtered and recovered for caustic value depending upon impurities present.

# 5. Sludge Handling Process

The sludge handling process will consist of conventional sludge dewatering on a rotary pre-coat vacuum filter and cake disposal by sanitary landfill on site.

# Resource Recovery

As mentioned previously, recovery of valuable metals will be practiced when ever it is economically feasible to do so. Initially, copper will be reclaimed from spent etching solutions (ferric chloride, ammonium persulfate, and chromic-sulfuric acids) by a cementation process using iron metal scrap as a raw material. Other metals may be recovered as values increase and the technology for economic recovery improves or develops.

The electrolytic process for cyanide destruction, followed by alkaline chlorination, will be a source of sodium and potassium hydroxides. The recovered caustic will be used to neutralize waste acids, but at times may have resale value depending upon the market and impurity levels.

Various acid and alkaline wastes will be combined and utilized as a means of offsetting waste against waste for treatment purposes. Another

example is the use of weak sulfide solutions to destroy the metal complexes often found in plating wastes.

# Quality Control

A modern well-equipped laboratory and technical staff will be provided to monitor plant operations, evaluate customer samples, specify treatment procedures, perform analyses required by State and Federal Regulatory Agencies, and to test each incoming shipment for characteristic and critical properties. Instrumentation, such as atomic absorption spectrophotometry, visible spectrophotometry, total organic carbon analyzer, oxygen meter, etc., will be installed to rapidly and accurately undertake a wide variety of analyses.

The laboratory will daily monitor the plant effluent prior to discharge.

Typical parameters of concern are: pH, total solids, dissolved solids,

suspended solids, biochemical oxygen demand, chemical oxygen demand,

total oxidizable carbon, cyanide, hexavalent chromium, and heavy metals

such as copper, zinc, iron, nickel, lead, cadmium, chromium, and mercury.

# SECTION D - PROPOSED FACILITIES

# General

The facilities required to carry out the processes described in Section C require a site which is located near a surface stream of suitable size and classification to receive treated effluent and near a municipal sewer on a system of adequate size and type of treatment. In addition a suitable area for landfill disposal of the solids produced is required. These requirements are ideally fulfilled by the Thomaston site. A site plan, location map, floor plan, topographic plan and equipment specifications are included in the Appendix. Location

The proposed site is located approximately two miles south of the center of the Thomaston business district adjacent to the north side of the Town of Thomaston wastewater disposal facility. The site has a total area of approximately 14 acres. It is located west of the access road to the Town treatment plant and east of Branch Brook, a tributary of the Naugatuck River.

#### Site Conditions

The site investigations centered upon the nature of the existing material at the sludge disposal site, the drainage characteristics of the material, the relationship of the site to surface and ground water, and the adaptability of the site for utilization as a disposal area without encroachment or danger of pollution or contamination of adjacent areas.

The site is fairly level and is well drained. No problems are anticipated with either ground water or surface water. The site is not subject to flooding.

Approximately 40 per cent of the site is presently covered with gravel stockpiles which will be removed for use on projects elsewhere.

Subsurface conditions were determined by taking five borings and excavating three seepage pits. In addition some miscellaneous excavations were made to confirm soil conditions. The borings and other tests indicate that the site had been previously used to dispose of large rocks, boulders, stones, and gravel. This fill covers about 85-90 per cent of the site and ranges in depth from about five feet near the front or east side to 15 feet or more in other parts of the site. It was learned that the original site topography was undulating and consequently, it is possible that even greater depths of rock fill may exist in some areas. The rock fill contains rock boulders or blasted pieces having a mean diameter as large as three to five feet. Below the fill material is a layer of sand and gravel in which the seepage tests were made. These tests showed good seepage rates, ranging from one inch in 4 minutes to one inch in 10 minutes.

Bedrock is exposed just off the property to the north. The depth to bedrock varies from 30 feet at a boring along the north property line to about 23 feet along the south property line.

One of the seepage test pits near the northeast corner of the site revealed the presence of a deposit of oily sludge which was later learned to be waste material from a solvent recovery operation. Additional excavations in the vicinity of these deposits indicate that they are 30 to 48 inches thick and cover an area of about  $40' \times 125'$  in size. This area should be segregated from any

new sludge deposits.

Four of the boring test holes around the perimeter of the site were fitted with test or observation wells for future use. Additional wells can be added in the future if necessary.

Details of the seepage test pits, boring logs and observation wells are included in the Appendix. Also included are data relative to surface and ground water elevations.

Water level elevations were obtained at two points in the Naugatuck River, two points in Branch Brook and in the four observation wells as shown in the Appendix. The difference in the water levels between the Naugatuck River and Branch Brook is very small indicating that the ground water table is practically flat in the east—west direction. There is a slight pitch in the ground water table downward to the south in the direction of flow of the river and the brook.

Based on these observations, it appears that if any leachate is produced, it will probably move in a southeasterly direction toward the Naugatuck River from any deposits located on the east side of the site. Consequently, the initial fill operations should be confined to the east side of the site and water quality in the observation wells should be carefully monitored to determine the direction of ground water movement. Leachate quality will not adversely affect ground water or surface water if operations are carried out as described herein. The most vulnerable to degradation would be Branch Brook or the ground water to the south. If such degradation should appear at a later date, the flow

of ground water could be altered by any one of the following:

- (1) Inject water into the ground between Branch Brook and the sludge deposits to force ground water movement toward the Naugatuck River.
- (2) Artificially raise the water level in Branch Brook on-site to force ground water movement toward the Naugatuck River.

Considering the topographic and subsurface conditions at the contemplated sludge disposal site, and the nature of the sludges proposed to be disposed of in this area, the site is suitable as either a final or interim disposal area for mechanically dewatered sludges. This type of application can normally be carried out without nuisance, and needs only very occasional sand or gravel cover and since the disposal area is reasonably well drained. an underdrain system need not be provided. With adequate treatment of the sludges prior to dewatering and disposal, the leachate from the dewatered sludge in the disposal area would not be expected to contain any significant pollutants, and need not be prevented from seeping ultimately into the ground water table and the Naugatuck River.

The site will readily support conventional earth-moving machinery and trucking, and no special equipment would be required to utilize the area for dewatered sludge disposal.

This site lends itself well to utilization as either an ultimate disposal area, or as an interim disposal area that at a later date, should reclamation technology and economics so dictate, could be re-excavated to allow transfer of the sludge to a reclamation facility.

# Site Layout

The plant will be housed in a building located on the east central part of the site. All storage and treatment operations will be carried out in the building. The landfill operations will be carried out in the northeast section of the site.

# Building Design

The proposed treatment and operations building will house all functions including management, sales and laboratory. The building will be divided into three areas as follows:

- 1. Offices and Laboratory
- 2. Operations and Storage
- 3. Truck Unloading

#### 1. Offices and Laboratory

The offices and laboratory area will be one story construction with drywall interior partitions. Floors and hallways of the offices will be covered with vinyl tile.

#### 2. Operations and Storage

The operations area and storage area will be of insulated steel construction with concrete floors to support tankage. The area will be equipped with sumps to which any floor drainage will flow. The alkaline and acid waste handling areas will be separated to prevent accidental

mixing. The inside working height will be 20' - 25' feet with inside supporting columns. A 15' wide by 20' high electrically operated door to the storage area and personnel doors on each side of the area will be provided. Adequate provisions for ventilation will be made. Heating will be provided so that a minimum of 40° F can be maintained throughout. Two 1' wide by 3' high openings will be provided on the side next to the truck unloading area for hoses to pass through the wall to the sumps.

# 3. Truck Unloading

A concrete area will be provided to support 80,000 lb. tractortrailer rigs. The area will be equipped with separated drains to separately collect alkaline or acid contamination should spillage occur.

The plant will consist of approximately 5,000 sq. ft. of processing area (reactors, cyanide treatment, copper recovery, filtration, etc.); 7,000 sq. ft. devoted to waste storage, drum decanting, and chemical storage; and 2,500 sq. ft. of office and laboratory space. The proposed floor plan is shown in the Appendix.

The operations areas consist of the following stations:

Receiving and Storage (bulk, container, and drums)
Vacuum Decanting (containers and drums)
Acids, Base, and Sludge Treatment
Lime Storage (bulk)
Sludge Thickening
Sludge Filtration (rotary vacuum filter)
Cyanide Destruction (electrolytic)
Copper Recovery (cementation)
Chromic Acid Treatment (reduction)

Each of the above stations is described in more detail below. Incorporated in each of the descriptions is a brief functional and equipment description to

indicate how the treatment processes previously described in Section C will be carried out.

#### Receiving and Storage Facilities

The receiving and storage facilities consist of the following:

- 1. Truck Unloading Area
- 2. Drum Storage Area
- 3. Vacuum Drum Unloading Facilities
- 4. Acid Waste Storage Tanks
- 5. Alkaline-Cyanide Waste Storage Tanks

Eight 10,000 gallon tanks will be used for receiving and storing acidic wastes. Material of construction was selected to resist a broad range of corrosives and permit wide latitude in type of service allowed for the tanks.

Three 10,000 gallon tanks will be used for alkaline wastes and cyanide storage. These tanks will be physically separated from acid tanks with separate pumps and drains. One tank will be used for alkaline waste, one for concentrated cyanides, and the last for dilute cyanides.

Drums and containers will be stored in the receiving area on pallets until vacuum decanted for transfer to the appropriate storage tanks. One decant system will be maintained for alkaline waste and another for acid types. Each decant system will consist of a 1,000 gallon FRP tank and rotary vane vacuum pump. Vacuum applied to the tank by the pump will suck drum contents (via a two inch hose and wand) into the tank for subsequent transfer to storage. The output of the vacuum pump will be connected to a fume scrubber.

Deliveries received in bulk tank trucks will be pumped out of the truck by hose connections to unloading pumps. Three pumps will be provided for unloading bulk acid deliveries and two for bulk alkaline and cyanide deliveries.

The acid pumps and alkaline pumps are completely separated from each other.

The discharges from the two bulk alkaline-cyanide pumps and the alkaline-cyanide drum decant pump are piped to the three alkaline-cyanide storage tanks.

Similarly the acid unloading pumps discharge to eight acid storage tanks.

The eight acid storage tanks will be provided with hose connections to any of the three acid pumps for the purpose of transferring the contents to the acid-alkali treatment system. Similarly the three alkaline-cyanide tanks can be pumped out by two separate pumps to either the acid-alkali treatment system or to the cyanide treatment system.

The truck unloading area will be paved and sloped in the same manner as the operations and storage areas to prevent spillage from escaping and contaminating ground water or surface water. Rain water from the paved area will be contained so that if contamination occurs the waters can be collected and pumped to a treatment area. Storm waters are expected to meet discharge criteria because of housekeeping practices.

Tank trucks will be washed out whenever necessary with all wash waters pumped directly to storage or treatment areas.

Unloading facilities will be provided to minimize drips of wastes from hoses during unloading operations and to collect and dispose of any unavoidable spillage. As previously mentioned, when the wastes arrive at the plant they will be sampled to confirm they are consistent with previous samples, test results, and representations made at the time of sale of the services. This precaution protects against the possibility of mixing incompatible wastes in the storage tanks or processing facilities.

#### Acid-Alkali Treatment Facilities

The acid-alkali system consists of the following facilities:

- 1. Batch Reactors
- 2. pH Monitoring System

Three 10,000-gallon batch reactors will be provided. Each tank will be fitted to receive discharges from the acid storage pumps, the alkaline storage pumps and the lime feed system. Also each reactor will be connected to the pH monitoring system. Each tank will have a mixer and will be connected to the acid fume scrubber.

The pH monitoring system will consist of a sample pump, flow-through pH cell and pH indicator-recorder.

The operating procedure will be as described in Section C.

# Chromic Acid Treatment Facilities

The chromic acid treatment would be carried out in one of the acid storage tanks, using one of the acid pumps for recirculation and mixing.

The pump would also be used to energize an eductor for feeding sulfur dioxide.

After completion of the reaction, the contents of the tank would be transferred to one of the acid-alkalı reactors. The pH during the reaction will be monitored by sampling and laboratory pH tests. Provisions will be made to also feed bisulfite solutions for chromium reduction.

#### Copper Cementation Recovery Facilities

The copper cementation facilities consist of the following:

- 1. Feed Pump
- 2. Flow Meter
- 3. Reactor
- 4. Iron Scrap Feed Conveyor
- 5. Two Settling Tanks
- 6. Copper Effluent Pump
- 7. Auxiliary Acid Feed

The feed pump would deliver waste from the storage area through a flow meter to the cementation reactor. The pump and flow meter permit regulation of flow rate within desired limits. The reactor will be a two-foot diameter and nine-foot long polypropylene reactor cylinder with six internal baffles. Scrap iron and raw waste will be fed in the inlet end of the reactor along with an auxiliary acid feed as required to maintain pH value within desired limits. The copper cementation reactor will discharge into two settling tanks in series. The copper effluent pump will pump the settling tank effluent to the copper effluent tank in the storage area.

The copper effluent tank will then be used for hexavalent chromium reduction or neutralized as required.

#### Cyanide Treatment Facilities

The cyanide treatment facilities consist of the following:

- 1. Two Pumps
- 2. Electrolytic Ckidation Unit
- 3. Chlorine Feeder
- 4. Hypochlorite Tank
- 5. Alkaline Chlorination Treatment Tank

Dilute cyanides will be treated by alkaline chlorination unless the cyanide concentration dictates use of electrolytic oxidation. Concentrated cyanide wastes will be treated by electrolytic oxidation. The electrolytic oxidation unit will receive 500 gallon batches from the storage tanks. After four hours the cyanide will be reduced to about 1000 mg/l and the batch will be transferred to the alkaline chlorination tank using the two cyanide pumps provided. The electrolytic oxidation unit will be connected to the alkali fume scrubber.

The alkaline chlorination system will be operated to achieve complete cyanide destruction using two stages of treatment. The first stage at pH 10 to 10.5 will convert free cyanide to cyanate and the second stage at pH 8.0 to 8.5 will convert cyanite to nitrogen, carbon dioxide and water. The cyanide pumps will be used to recycle the treatment tank contents to mix the tank and energize the chlorine feeder. The tank will also be mixed with air. The pH value and cyanide concentration will be monitored by sampling and laboratory analysis. The effluent produced will be utilized in the general neutralization reactions because of free available alkalinity. The chlorination tank will be connected to the alkaline fume scrubber.

# Sludge Dewatering Facilities

The treated batches from the acid-alkali reactors will be high in precipitated solids and will average about 1.1 specific gravity and four per cent suspended solids. These solids will be pumped from the batch reactors to a sludge handling facility consisting of:

- 1. Sludge Storage Tank
- 2. Sludge Pumps
- 3. Pre-Coat Vacuum Filter
- 4. Filtrate Storage Tank

The sludge will be pumped from storage and filtered through a precoat vacuum filter, 10 ft. in diameter x 12 ft. long. At estimated filtration rates of 5 gallons/hour/sq. ft., two 10 x 12 filters will be required at plant capacity. However, until the plant approaches its 50,000 gallon/day capacity, only one filter will be installed. Subsequent installations will be based on throughput, the use of flocculating agents, and operating experience.

The filtrate from the vacuum filter will be stored for laboratory testing and approval of quality before release to the river or sewer.

Washed solids generated by filtering operations will be removed by forklift truck in 1-1/2 cubic yard containers and transported to the landfill area for disposal.

# Sludge Disposal

The filter cake produced on the pre-coat filter will be disposed of onsite by accepted landfill procedures.

The dewatered solids or sludge cake derived from filtration operations will be firm and free of visible liquid. The cake will be approximately 30 - 35 per cent by weight solids. The expected volume at design capacity is 5 - 15 cubic yards per day.

Placement of the solids in the landfill and minimal protection from rainfall will allow the material to dry out and compact producing a stable and non-dusting deposit. Various techniques such as cementation, mixing or covering with sand and gravel, the use of bentonite clays, or other cementation and solidification devices can be used to speed the process of desired.

Solids will be landfilled in segregated compartments, each approximately  $100 \, \text{ft.} \, \text{long} \times 100 \, \text{ft.} \, \text{wide} \times 10 \, \text{ft.} \, \text{deep.}$  After each pit is filled to capacity, a new area will be employed until such time as a new layer can be placed over a filled area after separation by approximately one foot of cover material.

The landfill site was a sand and gravel pit that was partially backfilled with rock rubble. When necessary retaining walls of sand, earth, or gravel will be used to block off any exposed pit faces or to maintain contour lines.

The deposited solids will be protected from rainfall and drainage in order to promote sludge drying and compaction. Exposed sludge surfaces will be sloped and then protected with plastic overlays, a cementation process the use of bentonite clays, or other non-polluting sealants. Should any sizeable quantity of fluid collect in the landfill area, it will be pumped back to the plant for filtration and discharge to an approved outlet.

Ground waters will be monitored for contamination with a minimum of four wells placed on the perimeter of the landfill area, as dictated by the apparent movement of ground waters. These wells have been installed as shown in the Appendix.

#### Air Follution Considerations

The treatment facility potentially could contribute to air pollution because of lime transfers, liquid storage and processing, copper cementation, and cyanide destruction. The appropriate corrective action is indicated below with each source:

#### 1. Lime Silo

A bag filter is employed as an integral part of the lime storage facility. The purpose of the filter is to remove all particulate lime generated when transferring hydrated lime into the silo from a blower on the bulk delivery truck.

#### 2. Reactors

Occasionally various acids produce fumes when diluted or neutralized, e.g., strong nitric acid. Any gases or fumes generated in this manner will be collected and removed in a packed column fume scrubber. Manufacturer's data for the scrubber shows approximately 99% efficiency for the system.

#### 3. Storage Tanks

Vapors will be displaced from storage tanks during filling. These vapors will be sent to the gas scrubber indicated in item 2 above.

# 4. Copper Cementation Process

Acid fumes collected from the cementation reactor and settling tank will be removed in the acid fume scrubber (Item 2).

# 5. Cyanide Process

The electrolytic distruction of cyanide with the formation of carbon dioxide and nitrogen gases, will generate small quantities of entrained liquids in air above the tank. These vapors will be collected and removed in a separate scrubber system, similar to that indicated in Item 2 above.

# Housekeeping and Spillage Control

Every effort will be made to control spillage in and around the plant area to minimize safety, pollution, and housekeeping problems. To this end the operations and storage areas of the plant are designed with sloping floors intercepted with specially lined trenches and sumps. Any spillage collected in the sumps will be pumped to the appropriate treatment process.

All transfer and acid pumps will be recessed over the sumps in order to contain seal leakage. leaks from hose connections, and leaks emanating from associated fittings and piping. Smaller pumps will be placed in PVC or polyethylene receptacles.

Curbing or floor sloping and separate sumps will be provided to segregate cyanide or alkaline spillage from acid areas.

The truck unloading area will be paved and sloped to prevent spillage from contaminating ground water. It also will be segregated into acid and alkaline areas. Rain water from the paved area will be contained so that if contamination occurs the waters can be collected and pumped to a treatment area. Storm waters are expected to meet discharge criteria because of house-keeping practices and will be pumped to the Naugatuck River after testing.

Tank trucks will be washed out whenever necessary with all wash waters pumped directly to storage or treatment areas.

#### Safety

All construction of plant and facilities will conform to existing State, Federal, or OSHA regulations,

Safety showers will be provided in the operations, storage, laboratory and truck unloading areas. Various safety devices; e.g., fire extinguishers, first aid equipment, respiratory protective devices, cyanide test equipment, etc. will be located throughout the plant.

All employees in the operations area will be provided with hard hats, safety glasses, protective face shields, rubber suiting, gloves and hard toe

rubber shoes or boots. Hard hats, safety glasses and hard toe boots will be mandatory, other equipment used as dictated by the job requirements.

In the event of total power failure all operations can be shut down and the wastes contained in their storage vessels. This implies the possibility of restricting incoming shipments, based on storage capacity, and limiting production based on the capabilities of gasoline powered pumps and portable generators.

Emergency exit lighting will be provided throughout the plant, office, and laboratory areas.

#### Miscellaneous Supporting Equipment

An acid fume scrubber will be provided. This scrubber is designed to remove any fumes or vapors originating at the storage tanks (during filling), vacuum decant system, reactors, and copper cementation system.

Materials of construction for the building and equipment were carefully selected to withstand a wide range of corrosive conditions and chemical service. Fiberglass reinforced plastics (FRP) are used extensively throughout the plant. Utilities

Utilities required at the plant include:

Water

Gas

Sewer

Telephone

Drainage

~

Electrical Power

#### Chemicals

Chemicals to be used at the plant will be principally:

- 1. Hydrated Lime
- 2. Chlorine (gas and sodium hypochlorite)
- 3. Sulfur Dioxide and Sodium Bisulfite
- 4. Sodium or Ferrous Sulfide

Hydrated lime will be purchased in bulk and stored in an enclosed outdoor silo. The chemical will be fed to any of the three acid-alkali reactors by means of a tubular conveyor.

Chlorine gas will be purchased in one ton cylinders and provisions will be made to use sodium hypochlorite as an alternate.

Sulfur dioxide will be purchased in one ton cylinders and provisions will be made to use sodium bisulfite as an alternate.

Sodium and/or ferrous sulfide will be purchased in bags.

#### APPENDIX

Location Map

DEP Preliminary Approval Letter

DEP Draft Permit

Cascio, Tuttle Engineering Inc. Letter of Evaluation of Proposed Effluent

Seepage Test Pits

Surface Water and Ground Water Elevations

Boring Logs

References

Equipment Specifications

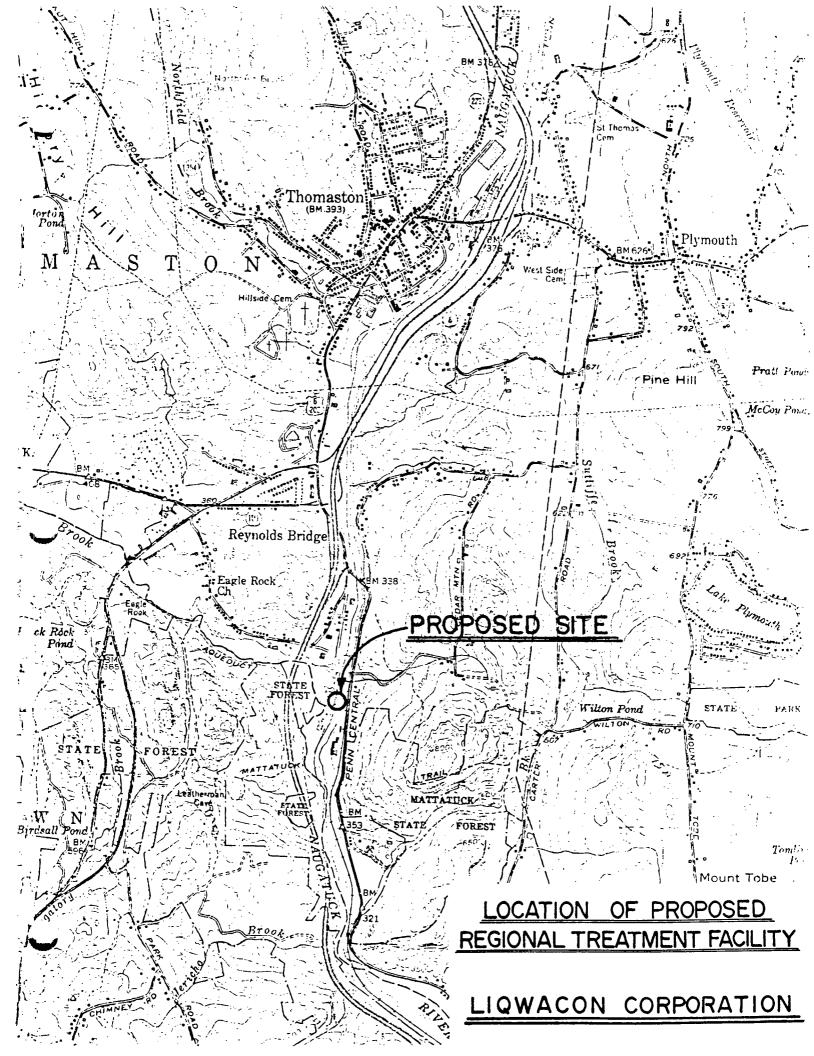
#### DRAWINGS

Process Schematic

Topographic Plan

Site Plan

Floor Plan





# STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION



STATE OFFICE BUILDING

HARTFORD, CONNECTICUT 06115

September 4, 1974

Ligwacon Corporation c/o Yarway Corporation Blue Bell, Pennsylvania 19422

ATTENTION: Mr. Richard M. Welch

President

#### Gentlemen:

Subsequent to the public hearing held on August 12, 1974 on your application for a permit to discharge an average of 40,000 gallons per day of treated metal finishing wastewater to the Naugatuck River, the Hearing Examiner found that the tentative determination was appropriate and recommended authorization of the discharge.

The Director of Water Compliance and Hazardous Substances has concurred with the recommendation and has authorized the staff to complete its review of the plans and recifications for the proposed treatment facility. He further authorized the issuance ,the required federal and state permits upon installation of the facilities in full compliance with approved plans and specifications.

We are completing our review of the plans and specifications for your facility. Upon approval of the plans and specifications, you will be authorized to proceed with construction of the required facilities.

If you have any further questions, please feel free to contact this office.

Very truly yours,

Merwin E. Hupfer

DIRECTOR

WATER COMPLIANCE

MEH: AMK: 1ch



## STATE OF CONNECTICUT

# DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION SOFT WATER QUALITY WATER CONFLIANCE THATAGORYS SUBSTANCES



Liqwacon Corporation
c/o Yarway Corporation
Blue Bell, Pennsylvania 19422

Attention: Mr. Richard M. Welch

President

DRAFI WILL ONLY

Re: DEP/WPC 006-F18

Town of Beacon Falls

Naugatuck River Watershed

#### Gentlemen:

This permit is authorized to be issued by Chapter 474a, Connecticut General Statutes and Section 402(b), Federal Water Pollution Control Act Amendments of 1972, 86 Stat. 916 et. seq., and pursuant to an approval dated September 26, 1973, by the Administrator of the United States Environmental Protection Agency for the State of Connecticut to administer an N.P.D.E.S. permit program.

Your application, filed with the Connecticut Department of Environmental Protection on June 11, 1974 has been reviewed by the Connecticut Department of Environmental Protection.

The Director, Water Compliance and Hazardous Substances Division, Department of Environmental Protection (hereinafter "the Director") hereby finds that the discharge will not cause pollution of the waters of the state.

The Director, acting under Section 25-54i, hereby permits Liqwacon Corporation to take such action as is necessary to:

1) Insure that all wastewaters described in the above referenced application are collected, treated and discharged in accordance with the plans and specifications approved by the Director on together with associated engineering documents, correspondence and other data submitted to comply with this permit.

- ) Insure that all discharges described in this permit shall not exceed and shall otherwise conform to the specific terms and general conditions specified herein.
  - A) Discharge Serial No. 001
    Receiving Stream Naugatuck River
    Average Daily Flow 40,000 gallons per day

<u>Parameter</u>	Average Daily Quantity	Maximum Daily Quantity	Average Daily Concentration
Aluminum	0.304 kg/day	0.608 kg/day	2.0 mg/l
Cadmium	0.015 kg/day	0.030 kg/day	0.1 mg/1
Chromium-Total	0.076 kg/day	0.152 kg/day	0.5 mg/1
Chromium-Hexavalent	0.0076 kg/day	0.015 kg/day	0.05 mg/1
Copper	<b>0.1</b> 52 kg/day	0.304 kg/day	1.0 mg/l
Iron	0.456 kg/day	0.912 kg/day	3.0 mg/1
Lead	0.015 kg/day	0.030 kg/day	0.1 mg/1
Nickel	0.304 kg/day	0.608 kg/day	2.0 mg/1
Tin	0.015 kg/day	0.030 kg/day	0.1 mg/l
Zinc	0.304 kg/day	0.608 kg/day	2.0  mg/1
Cyanide (Amen.)	0.0076 kg/day	0.015 kg/day	0.05 mg/1
Cyanide (Total)	0.456 kg/day	0.912 kg/day	3.0 mg/l
Ammonia, NH3	0.304 kg/day	0.608 kg/day	2.0 mg/1
Fluoride	1.52 kg/day	3.04 kg/day	10.0 mg/l
Pheno1	0.0076 kg/day	0.015 kg/day	0.05 mg/1
✓ Chemicial Oxygen Demand	4.56 kg/day	9.12 kg/day.	30.0  mg/l
Total Organic Carbon	2.28 kg/day	4.56 kg/day	15.0 mg/1
Surfactants	0.76 kg/day	1.52 kg/day	· 5.0 mg/1
Hexane Extractables	1.52 kg/day	3.04 kg/day	10.0 mg/l

- 1) The pH of the discharge shall not be less than 6.0 or greater than 9.0.
- 2) The discharge shall not contain a visible oil sheen, foam or floating solids.
- 3) The discharge shall not contain more than 0.1 milliliters per liter settleable solids.
- 4) The discharge shall not cause visible discoloration of the receiving waters.
- 5) The average daily concentrations specified above shall not be exceeded by more than a factor of 2.0 during any day.
- The temperature of the discharge shall not increase the temperature of the receiving stream above  $85^{\circ}F$  or raise the normal temperature of the receiving stream more than  $4^{\circ}F$ .

- 3) Not discharge any new pollutant no authorized by this permit which has or may have an adverse impact on the receiving waters.
- 4) Monitor and record the following for the purpose of reporting quality and quantity of each discharge according to the following schedule:
  - A) Discharge Serial No. 001

•	Minimum Frequency	
Parameter	of Sampling	Sample Type
Aluminum .	Twice Per Week	Composite
Cadmium	Twice Per Week	Composite
Chromium-Total	Twice Per Week	Composite
Chromium-Hexavalent	Twice Per-Week	Composite
Copper	Twice Per Week	Composite
Iron	Twice Per Week	Composite '
Lead	Twice Per Week	Composite
Nickel	Twice Per Week	Composite
Tin	Twice Per Week	Composite
Zinc	Twice Per Week	Composite
Cyanide (Amen.)	Twice Per Week	Composite
Cyanide (Total)	Twice Per Week	Composite
Ammonia, NH3	Twice Per Week	Composite
Fluoride	Twice Per Week	Composite
Phenol	Twice Per Week	Composite
Chemical Oxygen Demand	Twice Per Week	Composite
Total Organic Carbon	Twice Per Week	Composite
Surfactants	Twice Per Week	Composite
Hexan Extractables	· Twice Per Week	Composite
рН	Twice Per Week	Range During Composite

- 1) Record the total flow during the period of composite sample collection.
- 5) Not bypass the treatment facilities at any time.
- 6) Dispose of screenings, sludges and other solids or oils and other liquid chemicals at locations approved in accordance with the provisions of Chapter 474a and/or Chapter 361a of the Connecticut General Statutes or to waste haulers licensed under Chapter 474a of the Connecticut General Statutes.
- 7) Provide an alternate power source adequate to operate the treatment facility and/or such other means as may be appropriate to insure that no discharge of untreated or partially treated wastewater will occur during a failure of the primary power source.
- 8) On or before verify to the Director that compliance with paragraphs 1, 2, 3, 4, 5, 6. 7 and 8 will be achieved.
- 9) On or before thirty (30) days following initiation of the discharge and on a monthly basis thereafter, submit to the Director all monitoring data as required by paragraph 4 above.

This permit shall be considered as the permit required by Section 402 of the Federal Water Pollution Control Act and Section 25-54i and shall expire on

The permit shall be subject to all the NPDES General Conditions dated February 4, 1974 which are hereby incorporated into this permit.

Entered as a permit of the Director the th day of

Robert B. Taylor, DIRECTOR
WATER COMPLIANCE AND HAZARDOUS SUBSTANCES Department of Environmental Protection State of Connecticut

NPDES No. CT0021571

# Profes Griseal Countries

These general conditions apply to all orders or permits issued by the Ecpartient of Environmental Protection which are considered NPDES Permits under the provisions of Section 402 of the Federal Water Pollution Control Act.

- I. Any person or municipality wishing to initiate, create or criginate any new discharge of water, substance or material into the waters of the State of Connecticut shall file an application for a permit which shall irelude a complete NOTS application no later than 150 cays in advance of the date on which it is desired to comence the discharge.
- Any explication filed in accordance with condition (1) shall be signed as follows:
- (a) In the case of corporations, by a principal executive officer of at least the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates.
- ) In the case of a partnership, by a general partner.
- (c) In the case of sole proprietorsnip, by the proprietor.
- (d) In the case of a municipal, state, or other public facility, by either a principal executive officer, ranking elected official or other duly authorized employee.
- 3. The recipient of any order or permit shall immediately notify the Director, Mater Compliance and Matercous Substances, Department of Environmental Protection (hereinafter "the Director") and the Regional Actimistrator of the Environmental Protection Agency when it is known that any interin or final requirement of the order or permit will not be complied with and the reasons therefor. The Director may require the filing of a written statement itemizing the reasons for non-compliance
- 4. All discharges authorized by any order or permit shall be consistent with the terms and conditions of the order or permit.
- button may result in new or increased discharges of water, substance or material to the waters of the State of Connecticut must be authorized by the issuance of an evise permit or order prior to being fullitated. Created or or revised permit or order prior to being thitiated, created or revised unless such discharges do not violate the terms and conditions of an existing order or permit.
- (a) If a new or increased or decreased discharge of water substance for material to the waters of the State of Conecticut does not violate the terms and conditions of the existing order or permit, notice of such new or increased or decreased discharge shall be sent to the Director and the Regional Administrator of the Environmental Protection Agency.

- (b) If the new or increased discharge of water, substance or material will violate the terms and conditions of an existing order or permit, an application shall be filed in accordance with condition (1).
- 6. The discharge of water, substance or naterial more frequently than, or at a level in excess of the terms and conditions of any existing order or permit shall constitute a violation of the terms and conditions of the order or permit.
- 7. Any order or permit may be modified, revoked, or suspended in accordance with applicable federal and state statutes, regulations and other administrative procedures in whole or part during its term for cause including, but not limited to, the following:
- (a) Violation of any term or condition of the order or permit;
- (b) Cotaining an order or permit by misrepresentation or failure to disclose fully all relevant facts; and
- (c) A change in any condition that requires either a temporary or permittent reduction or elimination of the discharge.
- 8. The Director or the Regional Administrator of the Environmental Protection Agency or their authorized representatives, on presentation of credentials shall be permitted:
- (a) To enter upon the premises in which the effluent source
  is located or in which any records are required to be
  kept under the terms and conditions of the order or
  permit;
- (b) To have access to and copy any records required to be kept under the terms and conditions of the order or permit;
- (c) To inspect any monitoring equipment or method required in the order or permit; or
- (d) To sample any discharge of water, substance or material to the waters of the State of Connecticut.
- 9. The recipient of any order or permit shall at all times maintain in good working order, and operate as efficiently as possible, any facility or systems of control installed to achieve compliance with the terms and conditions in the order or permit.
- 10. If a toxic effluent standard or prohibition including any schedule of compiliance specified in such effluent standard or prohibition is established under Section 207(a) of the Federal Mater Pollution Control Act for a toxic pollutent which is present in any discharge of water, substance or material to the waters of the State of Connecticut and such standard or promibition is more stringent than any term or condition of an order or permit the Director shall revise or modify that order or permit in accordance with the toxic effluent standard or prohibition and so notify the permittee.

- discharge water, substance or raterial who wishes to continue to discharge water, substance or raterial to the waters of the State of Connections after the expiration date of the order or penals shall file for a reassuance of the order or permit shall file for a reassuance of the order or permit on a form prescribed by the Director which shall include a conflete NFSES application no less than 180 days in solence of the date of expiration.
- Ine recipient of any order or permit shall: 12,
- Maintain records of all information resulting from any menitoring program centained in the terms and cenditions of the order or permit. 3
- Identify in the monitoring recerds 1) the date, the exact place and the time of sampling; 2) the dates analyses were performed; 3) who performed the analyses; 4) the analysis termiques and methods used; 5) the results of suchmanalysis; 3
- required by the Director, any records of monitoring activities and results including all original strip chart readings from continuous monitoring instrumentation and calibration Retain for a minimum of three years, or longer if specifically and reintenance records;  $\mathfrak{S}$
- Report on forms prescribed by the Director the monitoring results obtained in accordance with specified terms and conditions of any order or permit. 3
- 13. For the purpose of complying with the monitoring requirements prescribed in the terms and conditions of any order or permit, the sampling, preservation, handling and analytical rothods used must conform to the following references retrads, latest edition. However, different but equivelent methods are allowed if they receive prior written approval. of the Director.
- Standard Methods for the Examination of Mater and Wastewaters. 12th Edition, 1971, American Public Health Association. New York, New York 10019  $\mathfrak{S}$
- A.S.T.M. Standards, Part 23, Water; Admospheric Analysis. 1970; American Society of Testing and Materials, Philadelphia. Pennsylvania 19163, or 3
- Pethods for Chemical Analysis of Water and Wastewaters, Epril 1971, Environmental Protection Agency, Water Quality Office, Analytical Water Quality Control Laboratory, 1014 Brosoway, Cincinnati, Ohio 45268 1014 Breadway, Cincinnati, Ohio 3

# Definitions 7

Average - The arithmetic average

rate or the sampling interval (for constant volume samples) is productional to the flow rate over the time period used to each individual aliquot is proportional to the discharge flow regular intervals over a time period. Mormally the volume of least four ainguot samples collected over a four hour perfod. Composite Sample - A mixture of aliquot samples obtained at chicin the composite. A composite sample shall contain at

Greb Serple - An individual sample collected in less than 15 minutes.

- The maximum and minimum values of Range <u>During Corposite</u> - The maximum and minimum values o particiter observed in the aliquot samples used to make a composite sample. <u>Cooling Water - Water used for cooling purpose only, which contains heat, but which has no direct contact with any product</u> or raw material.

Average Daily Concentration - The average concentration during 24-nour period or an operating day.

Average Daily Flow - The average flow rate during an operating

Average Daily Quantity - The average quantity of waste generated during an operating day. Maximum Daily Guantity - The maximum quantity of waste generated during a 24-nour period.

Metal Concentration - All metal concentrations are expressed total metal concentration.

Daily Average - The average of a minimum of 8 measurements obtained at regular intervals over an operating day.

Cyanide - Cyanide which is amendable to destruction by chlorine. . four-Hour Average - The average of a minimum 4 measurements obtained at regular intervals during composite sample collection.

PLP FEBRUARY 4, 1974 APPROVED ROLL OF TO TOUR DATE FEBRUARES DIRECTOR, KATER COMPLINICE AND HAZARDOUS SUBSTANCES Department of Envirormental Protection CASCIO, TUTTLE ENGINEERING INC.



CONSULTANTS 86 WASHINGTON AVENUE NORTH HAVEN, CONN. 06473 (203) 239-4251

December 31, 1974

M. HAMDY BECHIR, SeD. GERALD A. CASCIO HIRAM A. TUTTLE

> Mr. Richard Welch 87 Longview Drive Churchville, Pennsylvania 18966

> > Re: Liquacon Industrial Waste Evaluation for acceptance into the Thomaston

Municipal Plant.

CTE 74-124

Dear Mr. Welch:

In accordance with your instructions we have evaluated the possible effects of Liqwacon industrial waste on the Thomaston Municipal Plant.

Following is a summary of our findings:

- The proposed discharge characteristics fall within the limits established in the Thomaston Ordinance except for the volume, suspended solids and BOD.
- 2. The increase in hydraulic loading due to the Liquacon waste and based on the present average daily flow is 6.25% which, for all practical purposes, will not materially alter the detention times in the treatment units of the Thomaston Plant.
- 3. The Liquacon waste has a suspended solids level of 2,000 mg/l. This waste mixed with the Thomaston municipal waste, having a suspended solids level of 100 mg/l will result in a waste having a suspended solids level of 212 mg/l. In our opinion, this will greatly improve the settling efficiencies of the primary settling tanks since the influent to the tanks will be concentrated rather than dispersed media.
- 4. The average BOD of the industrial municipal waste mixture will be 300 mg/l, however, since the industrial BOD is predominantly soluble, no BOD removal improvement is anticipated in the primary settling tanks.
- 5. The increase in organic loading, as measured by the pounds of BOD of the industrial municipal waste mixture, applied to the aeration tanks is 2.5 folds. This means that more aeration tanks will have to be put in operation for effective BOD removal or probably another mode of operation such as step aeration rather than conventional activated sludge should be employed.

- 6. The effect of increased organic loading will result in an increase in power consumption for additional mechanical aerators, return and waste sludge pumping as well as an increase in chlorine demand.
- 7. We can see two additional areas that require further investigation.
  - A. The amount of COD that does not exert BOD (about 5,000 mg/l). Does it have chlorine demand for oxidation? This is needed to assure proper chlorine feed rate before discharge into the Naugatuck River. This parameter could only be established when samples of the waste are available for testing. It is suggested that a composite sample of the waste be tested for this parameter within the first year of operation and adjustments be made when the test results are known.
  - b. The amount of soluble sulfates in the industrial waste is rather high. It is our estimate that the sulfate concentration in the industrial municipal waste mixture is in the vicinity of 2,400 mg/l. Considering that the primary sludge pumped to the digester is 4 to 5% concentration, then 95 to 96% of the water pumped to the digesters carries a high sulfate concentration. In the anaerobic environment of the digesters, the sulfates will be reduced to hydrogen sulfide resulting in noxious odors and blackening of copper piping. The extent of the sulfate sulfide reduction is beyond the scope of this limited study. However we recommend that it be evaluated further so as to avoid possible future problem with the digestion system.

It is therefore our considered opinion that the proposed Liquacon industrial waste, having characteristics as shown in your December 5, 1974, memo, is biologically treatable in the Thomaston Municipal Plant. The industrial municipal waste mixture will enhance the settling efficiency of the primary settling tanks since the influent is more concentrated. Additional power for aeration, return and waste sludge pumping and chlorination in needed. Further study to determine the exact chlorine demand and the behavior of sulfates in the digesters will be necessary to fully ascertain the effects on the municipal plant and avoid future conflict.

We have enjoyed performing this evaluation for you and we stand ready to tackle the chlorine demand and sulfate behavior in the digester if you so desire.

Very truly yours,

CASCIO, TUTTLE ENGINEERING, INC.

-M Hamily Beckir, P.E.

President

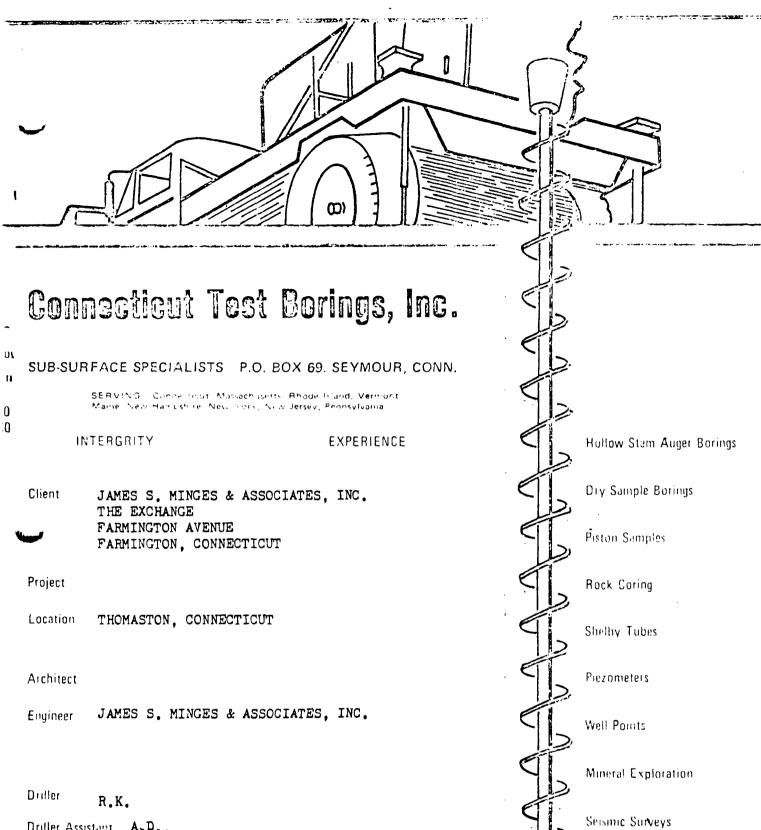
# SEEPAGE TEST PITS

(See Plan for Locations)

	<u>No. 1</u>	No. 2	<u>No. 3</u>
Total Depth	14'	7'	7-1/2
Overburden of Rock Fill	0	4-1/2'	6'
Ground water	None	None	None
Material at bottom of hole	Coarse sandy of silt in all ho	gravel with trace bles	
Seepage Rate (Minutes/inch)	4	10	6

# SURFACE WATER AND GROUND WATER ELEVATIONS

	Date (19	975)
Location	Jan. 27	Feb. 6-7
Naugatuck River North	325.7	324.8
Naugatuck River South	324.5	324.2
Branch Brook North	324.6	324.6
Branch Brook South	322.6	322.0
Well #13	324.4	324.4
Well # 15	326.5	325.4
Well #16	322.5	322.7
Well #17	325.8	325.4

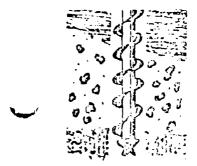


Shallow Caissons

Engineering Reports

Driller Assistant A.D.

Jar samples and or rack core samples delivered upon request.



#### SUB-SURFACE SPECIALISTS • P. O. BOX 69, SEYMOUR, CONN.

SERVING Connectical Massicrosetts, Rhode Island Vermont Maine, New Hampshire, New York New Jersey, Pennsylvania

# Connecticut Test Borings, Inc.

#### PENETRATION RESISTANCE & SOIL PROPERTIES

Predominant sa	id and gravef		Predominant silt an	d clay	
COHESIONLESS	SOILS	SOILS COHESIVE		COMPRESSIVE	
Slows per foot	Relative Density	Blows per fuut	Consistency	Strength (qu*)	
U 10 4	very hoose	0 to 2	very soft	below .25	
4 to 10	luer s	2 tv 4	sott	.25 to .50	
10 to 30	medium	4 to 8	medium	.50 to 1.0	
30 to 50	dense	8 to 15	stiff	1 to 2	
over 50	very dense	15 to 30	very stiff	2 to 4	
	•	over 30	hard	over 4	

#### NOTES.

Above based on 2" C  $\odot$  , complet x 1-3.8" i.d. 140 Wt, x 30" Fall (qu\*) = Toos per square Foot

#### STATE OF CONNECTICUT BASIC BUILDING CODE

#### TABLE 15. PROSUMPTIVE SUBFACE BEARING VALUES OF FOUNDATION MATERIALS.

	CLASS OF MATERIAL	Tons per
	Massive crystalline hed rock including granite shorite, gneiss, trap rock hard limestone and doloraite.	Square Foot 100
	Foliated rock includes bedded lanestone, school and slate in sound condition,	40
_	Sedimentary rock including Landshales, sandstones, and thoroughly cemented conglomerates.	25
4	Soft or broken bed rock oxclading male) and soft limestone,	10
1	Compacted, partially come ited $\{\cdot,\cdot,\cdot,\cdot\}$ and and hardpan overlying rock.	10
6	Gravel and sind gravel procture	6
٦	Loose gravel, hard digitally, compact $\omega_{\ell}$ iso sand, and soft shales.	4
3	Loose, coarse sand and sand gravel mixtures and compact fine sand (confined).	3
9	Loose medium sand (chatined), stiff clay.	2
Ð	Suft broken shale, soft clay,	1.5

HOLE NO 1

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E FINIS	1-27-75				Sub-Surface Specialists	}		PROJ. NO.						
C:					P. O. Box 69	-	LOCATION Thomaston, Connecticut							
F.A	MI	30	XX	-			S	EYMOUR, CONNECTICUT (203) 888-3857		LINE & STA.		<del></del>		
	GROUND	WATER	OBSERV	ATION	15			(203) 888-3837		OFFSET				
DATE	~~	TIME			EPTH		ESI	PECIALLY COMPILED FOR		GROUND ELE	VATION			
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15

TP == TEST PIT

HOLE NO.

16

SOILS ENGINEER

PRILLING INSPECTOR

50+ VERY DENSE

HOLE NO

17

## REFERENCES

EPA - 670/2-73-053-E
"Recommended Methods of Reduction, Neutralization,
Recovery or Disposal of Hazardous Wastes" TRW Systems
Group, Redondo Beach, Calif. Aug. 1973

# SPECIFICATIONS FOR ACID STORAGE TANKS, ALKALINE STORAGE TANKS, AND VACUUM DECANT EQUIPMENT

No. Req'd.	Description
8	Acid storage tanks (T1 thru T8) FRP construction, Atlac 382 or equivalent, vertical, 10,490 gal. capacity, 12 ft., diameter x 15 ft. high, nominal 1/2 in. thickness, domed top, flat sloping bottom (3 in. per 12 ft.). Equipped with: (1) 24 in. side entering manway (2) two 3 in. flanged nozzles on top (3) one 3 in. flanged nozzle flush to bottom (4) one 1 in. flanged nozzle on side (5) hold down lugs (6) lifting lugs.
3	Alkaline storage tanks, (T9 thru T11) carbon steel construction, vertical, 10,000 gal. capacity, 12 ft. diameter x 12 ft. high, nominal 3/8 in. thickness, flat top, flat bottom, Equipped with: (1) 24 in. side entering manway (2) two 3 in. flanged nozzles on top (3) one 3 in. flanged nozzle flush to bottom (4) one 1 in. flanged nozzle on side.
2	Vacuum decant tanks, FRP construction, Atlac 382 or equivalent, vertical, 1000 gal. capacity, 5 ft. diameter x 7 ft. high, flat top with bolted cover on manway, flat bottom, vacuum rated to 25 in. mercury, one 2 in. flanged nozzle flush to bottom.
1	Decant vacuum pump, Lieman rotary vane or equivalent, model 107, 38 cubic ft. per minute displacement, equipped with 10 HP TEFC motor, 220 VAC.

No. Req'd.	Description
1	Lime Silo, (T17) carbon steel construction, vertical, 2570 cu. ft. (40 ton capacity for hydrated lime), 12 ft. diameter x 20 ft. high, nominal 1/4 in. welded steel plate walls, flat top, 60° cone bottom, 8 in. x 8 in. wide flange H beam legs and concrete foundation. Equipped with: (1) 24 in. manhole, (2) inside and out ladder with safety cage, (3) 4 in. fill pipe, (4) Johnson-March bag house pulse-air dust collector, 1200 cu.ft./min. or equivalent, (5) bin vibrator with control and timer, (6) bin indicator for product level, (7) painted to Liqwacon specifications, (8) 8-in. tubular conveyor with 10 HP T.E.F.C. motor, 55 ft. long for delivery to reactors.
3	Portec Rotary Lime Gate (on reactor top), GR-10 or equivalent, 10 in. long $\times$ 17-1/4 in. wide, rubber seals, chain wheel operated,
3	Reactors, (R1 thru R3), FRP construction, Atlac resin 382 or equivalent, with dynel liner, vertical, 10,490 gal. capacity, 12 ft. diameter x 15 ft. high, nominal 1/2 in. thickness, domed or flat top, flat sloping bottom (3 in per 12 ft.). Equipped with: (1) four 3 in. flanged nozzles on top, (2) one 3 in. flanged nozzle flush to bottom, (3) one 3 in. flanged nozzle in side, (4) one 10 in. x 17-1/4 in. wide top opening (lime), (5) top center opening for agitator, (6) agitator mounts, (7) 3 in. dia. down pipe x 12 ft. long, (8) three 12 in. wide x 12 ft. long interior baffles, (9) four hold down lugs and, (10) 3 lifting lugs (11) 24 inch top manway.
3	Agitators. Chemineer Agitator 4 HTD-15-84 or equivalent; 84 rpm; continuous heavy duty service; 15 HP TEFC motor, 460 VAC three phase, 1,750 rpm; 2 1/2 in. agitator shaft, carbon steel, rubber coated, 124 in. long; 42 in. diameter turbine impeller, 4 blades, carbon steel, rubber coated; lip seal for reactor opening.
1	Treated Sludge Storage Tank (T13). Carbon steel construction, vertical, 10,000 gal. capacity, 12 ft. diameter x 15 ft. high, nominal 1/2 in. thickness, flat top, dished or sloping bottom, one 3 in. flanged nozzle on bottom, one 3 in. flanged nozzle on top, 24 in. side entering manway.

Alkaline Sulfide Tank (T15) carbon steel, vertical, 6000 gallon capacity, 8 foot diameter x 16 foot height, open top, sloping bottom, one 3 inch flanged nozzle on bottom, one 1 inch flanged nozzle on side.

1

# SPECIFICATIONS FOR ROTARY VACUUM FILTER, FRECOAT SLURRY AND FILTERED STORAGE TANKS

No. Reg'd.	Description
1	Rotary Vacuum Filter. Komline-Sanderson or equivalent, carbon steel, 10 ft. diameter x 12 ft. long, precoat type with tank agitator, 377 sq. ft. filter area, 37 1/2% sub-mergence. Equipped with: (1) Nash liquid ring seal vacuum pump Model 1002, 50 HP, 810 SCFM, (2) gas-liquid receiver, (3) 3 HP filtrate pump with TEFC motor, (4) two 3 HP filter drive motors, TEFC, (5) cake discharge assembly, (6) filter cake washing sprays.
1	Precoat Slurry Tank (T16) and Agitator. Tank, carbon steel construction, vertical, 2,000 gal. capacity, 6 ft. diameter x 10 ft. high, nominal 3/8 in. wall thickness. open top. and cone bottom. Equipped with 3 in. flanged nozzle on bottom center. and 3 HP mixer with slow speed, large bladed, propeller type agitator.
1	Filtered Storage Tank (T12) carbon steel, vertical, 5000 gal, capacity, 8 ft. diameter x 13 ft. high, nominal 3/8 in. thickness, flat top. flat bottom, equipped with: (1) two 3 in. flanged nozzles on top (2) one three inch flanged nozzle flush to bottom (3) one 1 inch flanged nozzle on side (4) 24 in. side entering manway.

# SPECIFICATIONS FOR COPPER CEMENTATION EQUIPMENT

٧٥.	Req'd.	Description
	1	Cementation Reactor. FRP construction, Atlac Resin 382 or equivalent, 1 ft. diameter $\times$ 9 ft. long, four internal baffles 1 1/2 in. high $\times$ 8 1/2 ft. long, 4 in. center openings with six inch extension on each end of the reactor, discharge end to be flanged and bolted.
	1	Drive System. Motor, speed reducer, four nubber covered rollers to support reactor, reactor rotation variable from 2 - 12 rpm.
	2	Acid Pump. Vanton Flex-i-Liner or equivalent, size 60A, 6.5 gpm at 10 psi discharge pressure. hypaton liner, poly-propylene body block. 1/2 HF motor © 1,750 rpm, 1 1/4 in. suction, 1 in. discharge.
	1	Settling Tank. PVC construction or equivalent, 10 ft. long x 3 ft. wide x 4 ft. deep. baffled to remove scum on top surface. 1 in. everflow pipe to pump.

# SFECIFICATIONS FOR CYANIDE EQUIPMENT

No. Req'd.	Description
1	Electrolytic Tank, PVC or polypropylene construction, 600 gal. capacity, 4 $1/2$ ft. long x 4 ft. wide x 5 ft. deep, equipped with (1) thirteen electrodes $1/8$ in. thick x 44 in. wide x 46 in. long, (2) seven sq. in. copper bus bar.
1 .	Rectifier. 42KVA rectifier with 7,000 amps output, 0-6 volts D.C. variable.
1	Chlorinator. Capital Controls or equivalent, Advance Model 824, wall mounted gas chlorinator, 1000 lbs/day capacity including remote mounted vacuum regulator, flow meter with rate valve, DF regulator 2-inch and ejector check valve assembly.
1	Chlorination Tank. Carbon Steel, vertical, 5,000 gal. capacity, 8 ft. diameter x 13 ft. high, nominal 3/8 in. wall thickness, flat top, flat bottom, equipped with (1) two 3 in. flanged nozzles on top and, (2) one 3 in. flanged nozzle flush to bottom, (3) one 1 in. flanged nozzle on side.
1	Fume Scrubber. Heil Model 731 or equivalent, FRP construction, packed tower, 400 cu. ft. per minute air capacity, one ft. diameter x 11 ft. high, recirculation rate of 5 gpm, make up water rate of 0.5 gpm, 3 in. water static pressure drop, equipped with fan and recirculation pump. 6 in. discharge duct, 6 in. wide x 6 in. long gas inlet, fume removal efficiency of 98% or better.

#### SPECIFICATION FOR ACID FUME SCRUBBER

#### No. Reg'd.

#### Description

1

Fume Scrubber. Heil Model 731 or equivalent, FRP construction, packed tower, 400 cu. ft. per minute air capacity, one ft. diameter x 11 ft. high, recirculation rate of 5 gpm, make up water rate of 0.5 gpm, 3 in. water static pressure drop, equipped with fan and recirculation pump, 6 in. discharge duct, 6 in. wide x 6 in. long gas inlet, fume removal efficiency of 98% or better.

#### SFECIFICATION FOR SULFUR DIOXIDE FEEDER

#### No. Req'd.

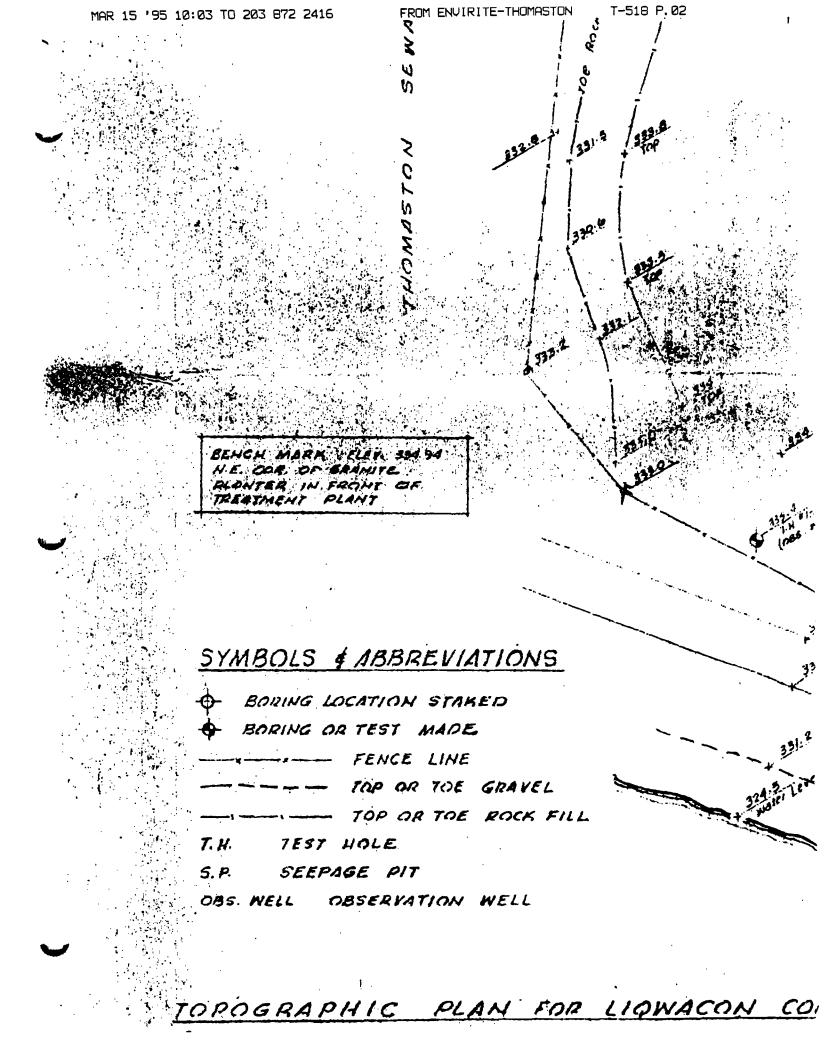
#### Description

1

Capital Controls or equivalent, Advance Model 8245, wall mounted gas sulfonator, 2000 lbs. per day capacity including remote mounted vacuum regulator flow meter with rate valve, D.P. regulator and 2-inch ejector check valve assembly.

## SPECIFICATIONS FOR PUMPS

lo. Reg'd.	Description
3	Acid Pumps (P1 thru P-3) Vanton Chem-Guard heavy duty centrifugal pump or equivalent, Model CG-PY 1200B, polypropylene construction, 200 gpm at 45 ft. total discharge head, 3 in. suction, 2 in. discharge, 150 lb. flanged connections, John Crane #9 Mechanical Seal QP61M010M with water flush; 7 1/2 HP TEFC motor, 1,800 rpm, 230/460 VAC, 3 phase; motor, base, and pump supports epoxy coated.
7	Alkaline and Sludge Pumps. (P4 thru P10) Gorman Rupp centrifugal or equivalent, Model 13A2B, carbon steel, 300 gpm at 20 ft. total discharge head, self priming, 3 in. female NPT connections, titanium shaft, tungsten carbide seal, oil lubricated seal, 3 HP TEFC motor at 1,800 rpm, 230/460 VAC, 3 phase.
4	Sump Pumps. (P15 thru P18) Vanton Flexi-Liner or equivalent, size 60A, 6.5 gpm at 10 psi discharge pressure, hypalon liner, polypropylene body block, 1/2 HP motor @ 1750 rpm, 1 1/4 in. suction, 1 in. discharge.



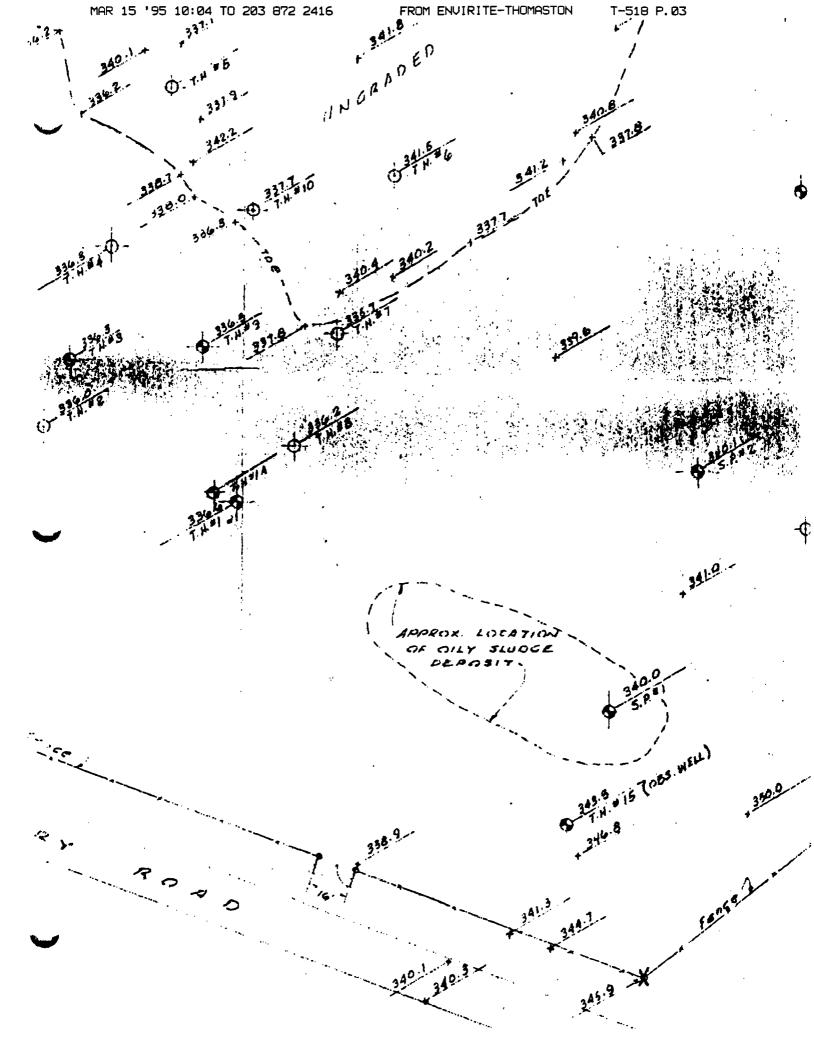
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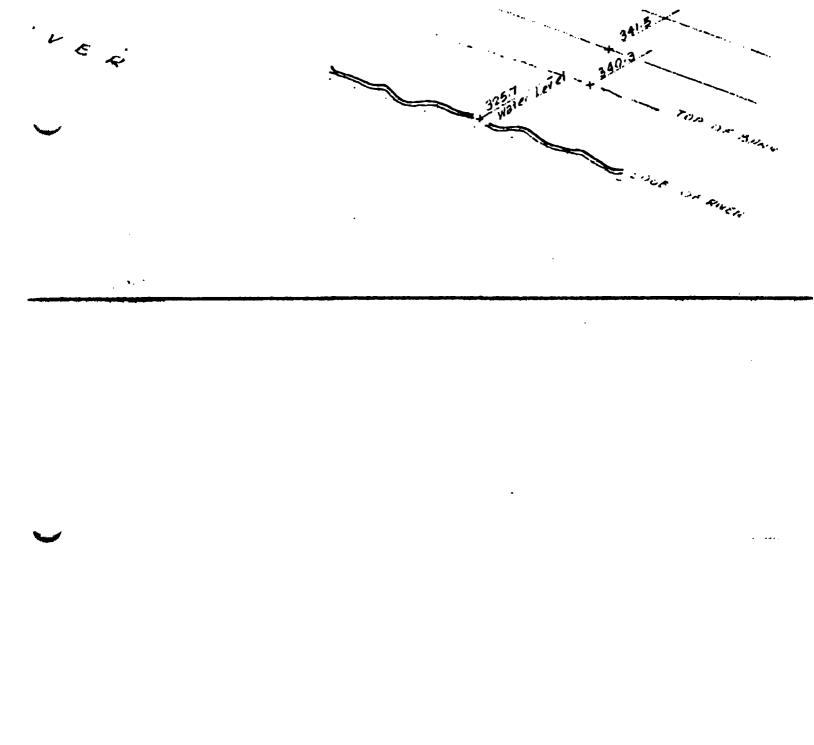
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THE MINGES ASSOCIATES





#### <u>APPENDIX C</u> EXPLORATION AND SAMPLING METHODOLOGIES

## FIELD METHODS SOIL BORINGS, SAMPLING and WELL INSTALLATIONS

Soil borings were performed at the site to collect subsurface soil and residue samples. The borings were advanced with either 4½ inch or 2½ inch hollow stem augers (when possible, the 2-1/4 inch augers were used to reduce the volume of auger spoils). No water was used during the advancement of the soil borings. Soil samples were collected from each boring using a 2 inch or 3 inch diameter, 24 inch long, split spoon sampler. Three inch diameter spoons were used to recover a sufficient volume of soil for laboratory analysis. Soil samples were collected at intervals described in the RFI Work Plan or based on field conditions. Specific sampling intervals are discussed in Sections 6.2.2, 7.2.2 and 8.1.

When sampling locations could not be accessed with a drill rig, or sampling depths did not require a drill rig, soil samples were collected by hand using a decontaminated metal trowel or shovel. All hand digging tools were decontaminated prior to sampling each location as described below.

GZA personnel observed the boring installations, logged soils, and collected soil samples. Each soil sample was described according to the Burmister Soil Classification System. All soil samples were collected in laboratory provided glassware and refrigerated after collection. All soil samples were transported on ice with a chain-of-custody to a certified laboratory for analysis.

Soil samples were field screened using headspace methods for total VOCs with a portable 11.7 eV HNu Model PI-101 or portable Thermo Environmental Instruments organic vapor meter (OVM) Model 580B (either 10.6 eV or 10.0 eV) photoionization detector (PID).

Total VOC headspace readings were recorded on the boring logs in ppm above background values relative to an isobutylene standard. All PIDs were calibrated daily; calibration data was recorded to track equipment performance.

All drilling equipment (augers, rods, etc.) were decontaminated prior to use in each hole using a steam cleaner. All split spoon samplers were decontaminated with a non-phosphate detergent scrub, tap water rinse, 20% methanol solution rinse and a final distilled water rinse prior to each use. A baking soda and water scrub was added as the first decontamination step for split spoons coated with treatment residues from the landfill. All fluids generated by the decontamination and cleaning of the drilling equipment was collected and disposed of by Envirite.

Observation wells were installed in all "MW" series borings completed at the site. Boring logs which show installation details for each well are included in Appendix D. Monitoring wells were constructed of 2-inch inside diameter (ID) PVC plastic riser pipe and 5 to 10 foot long screen sections. A filter of clean silica sand was placed in the annular space

around the well screens and a three to five foot thick bentonite seal was placed above the sand pack. The annular space above the bentonite seal was filled with concrete or bentonite grout. Each monitoring well was completed with a locking stand pipe placed in a concrete collar.

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## APPENDIX C SOIL GAS SURVEY METHODOLOGY

Soil gas samples were obtained at this site by driving a small diameter (1/4" I.D./1/2" O.D.) stainless steel tube ("probe") into the ground. The end of the probe was capped with a drive tip to prevent soil from entering the tube and to facilitate probe advancement. After being driven to the specified depth, the four foot long probe was withdrawn approximately three inches and the driving tip was ejected into the space below using a ramrod.

Once the probe was in place, a gastight, three-way valve was secured to the top of the probe. The valve was plumbed to have an off position, a septum port for sampling, and a position leading to a positive displacement, SKC air sampling pump. Prior to the collection of a soil gas sample, the probe was purged of ambient air. During purging, the total VOC concentration at the pump discharge was monitored using a TEI Model OVM 580B photoionization detector. Purging was stopped when the total VOC reading reached a maximum, or after two minutes of pumping. The valve was then closed to allow air pressure within the probe to equilibrate prior to sampling.

Soil gas samples were withdrawn from the septum port using a gastight syringe. The sample was immediately injected into a Photovac 10S50 portable gas chromatograph (GC) and/or a Perkin Elmer Sigma 2000 GC equipped with an electron capture detector. The GCs were equipped with 15 meter long SPB-1 capillary columns. The Photovac operated at ambient temperature while the Perkin Elmer GC was temperature programmed to range from 45°C to 100°C. VOC standards were prepared and injected to allow identification and tentative quantitation. Compound identification was based on matching retention times. The electron capture detector is especially sensitive to chlorinated compounds. VOC standards used for this GC included PCE, TCE, 1,1-DCE, trans-1,2-DCE, 1,1,1-TCA, and 1,2-DCA. Attempts to identify vinyl chloride using this apparatus were unsuccessfull. The Photovac GC was used to analyze for non-chlorinated compounds (benzene, toluene).

Concentrations were estimated by comparing the samples peak height with the peak height of the standards. Concentrations of additional compounds were tentatively quantified by relative comparison to peaks of known standards. Results of these analyses are presented on Table 6-1. Ambient air blanks were collected and analyzed at least once per day to verify that no residual VOCs were being carried over between runs. Ten percent of the soil gas samples were collected and analyzed in duplicate. Control point sample locations were sampled each day to check for consistency.

Sampling probes were decontaminated between each sampling point with a non-phosphate detergent scrub, tap water rinse, 20% methanol solution rinse, final distilled water rinse and allowed to air dry. Each probe was purged with ambient air prior to sampling. Each probe was monitored with a PID to check for cross-contamination between samples. Air samples were collected from ten percent of the decontaminated probes to check for cross-contamination.

## FIELD METHODS BOREHOLE PERMEABILITY TEST METHODOLOGY

Borehole permeability tests were performed by measuring the static depth to water in a well prior to testing. A pressure transducer connected to a data logger was lowered into the well and suspended near the bottom of the well. A clean, dedicated intake pipe (with foot valve) connected to an above ground centrifugal pump was lowered into the well to a level just above the pressure transducer. The water level within the well was allowed to stabilize to the static level after the insertion of the equipment and prior to starting the pump. Pumping of the well was commenced and maintained at a constant rate. The discharge rate was measured using a calibrated bucket and stop watch. If the water level in the well stabilized to within 0.1 feet during pumping for at least three minutes, pumping rate and stabilized drawdown were recorded.

If a stable drawdown and pumping rate could not be reached and the water level drew down to the pump intake, the pump was turned off and the data logger was turned on. The data logger recorded the rise of the water level in the well to within at least 90% of the recovery to the static water level.

The stabilized drawdown data were analyzed using the following equation (Hvorslev, 1951);

$$K = {Q ln[T + sqrt(1 + TT)]}/(2 Pi L Hc)$$

Where:

D (feet) = well casing diameter

K(feet/second) = average hydraulic conductivity

Kh(feet/second) = average horizontal hydraulic conductivity Kv(feet/second) = average vertical hydraulic conductivity

Hc (feet) = constant drawdown maintained during pumping

L (feet) = length of well screen or well screen and filter sandpack below the water table

1n(dimensionless) = the natural logarithm operator

M(dimensionless) = transformation ratio sqrt(Kh/Kv); assumed to equal 3.16

Pi (dimensionless) = the ratio of a circle's circumference divided by its diameter, approximated as

22/7

Q (cubic ft/second) = constant withdrawal rate maintained during pumping

T(dimensionless) = the ratio (ML/D)

The variable drawdown data were analyzed using the Bouwer-Rice method as implemented by the computer program AQTESOLV Version 1.1, by the Geraghty and Miller Modeling Group, Reston, VA.

## FIELD METHODS STEP TEST/PUMP TEST METHODOLOGY

A submersible pump was placed approximately 50 feet below grade inside the deep overburden extraction well EX-1. The pump was powered using a portable diesel generator. The discharge line from the pump was attached to a former non-contact cooling water line that discharges to the Naugatuck River. Discharge of pumped water was permitted by the Connecticut DEP (Temporary Authorization granted December 9, 1994). The discharge permit and monitoring data are attached.

Pressure transducers and dataloggers were set to monitor drawdowns in wells EX-1, MP-2, MW-41S, MW-41D, MW-41B, MW-42S, MW-42B, MW-43S, MW-43B, MW-44S, MW-44D, and MW-44B. Data was collected continuously from 18:00 hours on December 15 1994 through 09:00 hours on December 27, 1994. The dataloggers were downloaded approximately every 6 to 12 hours using a portable computer. Manual data were also collected from these wells during the step test. During the pump test, additional manual monitoring points were added to those established during the step test:

ADDIT	ADDITIONAL PUMP TEST MONITORING LOCATIONS										
Surface Water Locations	Shallow Overburden	Deep Overburden	Bedrock								
BBP-1	MW-30	MW-31D	MW-31B								
BBP-2	MW-31S	MW-32D	MW-37B								
BBP-3	MW-32S	MW-37D	MW-51B								
BBP-4	MW-33	MW-51D	MW-55B								
NRP-1	MW-36	MW-52D	MW-61B								
NRP-2	MW-50S	MW-53D	MW-62B								
NRP-3	MW-61S	MW-61D	-								
-	MW-62	-	<u>-</u>								
-	MW-63	-	-								

Well MW-51D was also instrumented for the recovery. Water level data from the pump test are provided in this Appendix.

Data collection points at the Envirite facility located in Thomaston, Connecticut are identified using the following system:

EX-1	extraction well
MW-42S	shallow overburden monitoring well
MW-43D	deep overburden monitoring well
MW-42B	bedrock monitoring well
MP-1	piezometer
BBP-1	Branch Brook piezometer/staff gage
NRP-1	Naugatuck River piezometer/staff gage

The data were corrected for drift in the zero-drawdown values prior to each phase of the tests, including the step test, the pump test, and the recovery period.

#### FIELD METHODS STREAM SURVEY

#### SURFACE WATER

#### Stream Flow Measurements

Velocity measurements were collected at each of the three primary transects identified along the Naugatuck River (NRT-2, NRT-3, and NRT-4) and the Branch Brook (BBT-2, BBT-3, and BBT-4). Measurements were collected during low flow (October) and high flow (April, May) periods. A Marsh-McBirney, Inc. Flo-Mate, Model 2000 Portable Water Flow Meter was used to collect the velocity measurements. The flow meter was calibrated to a flow rate of 0.0 feet/second before collecting measurements at each transect. Protocols outlined by the USGS in "Techniques of Water-Resources Investigations of the United States Geological Survey" as well as the protocols established in the Envirite Corporation RFI Work Plan (Section 27.1.1) and the "Alternative Proposals to RFI" document were generally followed; however, velocity measurement depths were modified as described below.

Transect locations were initially placed as described in the Questions and Concerns section of "Alternative Proposals to RFI". The locations were then slightly adjusted upstream and downstream to best meet the following conditions: 1) a straight reach of the river; 2) a stable streambed, free of large rocks and weeds, which would create turbulence; and, 3) a flat streambed profile to eliminate vertical components of velocity. At each transect, the width of the river was divided into fifteen equal increments. Water depth and flow velocity measurements were collected at the midpoint of each increment.

The following protocols were employed during the April 28, 1994 velocity measurement event at the Branch Brook primary transects and the May 3, 1994 event at the Naugatuck River primary transects. At the midpoint of each increment, the flow meter was placed upstream of the person measuring velocity and perpendicular to the stream flow. The velocity was measured for a twenty second interval and the flow meter measured an average velocity for the twenty second period. At depths less than a foot, velocity measurements were collected at 60% of the total depth only (Six-tenths-depth method). At depths between one and two feet, velocity measurements were collected at 20% and 80% of the total depth (Two Point Method). At depths greater than two feet, velocity measurements were collected at 20%, 60%, and 80% of the total depth (Three Point Method).

To calculate the flow velocity using the three point method (depths greater than two feet) the velocity measured at 60% depth was multiplied by two and added to the 20% and 80% measurements. The sum was divided by four to yield the average velocity. To calculate the average velocity using the two point method (at depths between one and two feet) the sum of the 20% and 80% measurements was divided by two. The average velocity for each increment multiplied by the total area of each increment (determined by multiplying the depth times the width of the increment) to calculate the discharge for each increment. The sum of the discharge rates across each transect yields the total discharge for the river at the transect.

During the October 4, 1994 measurement event at the Naugatuck River primary transects and the October 5, 1994 measurement event at the Branch Brook primary transects, velocity measurements were collected at 20%, 60% and 80% of the total depth when the stream depths exceeded one foot. The discharge rates for transects with water depths greater than one foot were calculated with the two-point method data and the three-point method data to validate the change in sampling protocol and to validate the April and May velocity measurements. The difference in total discharge rates was less than five percent.

#### Chemical and Physical Parameters (Water Quality)

Chemical and physical parameters (water quality parameters), as described in Section 27.1.1 of the RFI Work Plan, were also measured at each of the three primary transects along the Naugatuck River and the Branch Brook. The temperature, pH, specific conductivity and dissolved oxygen were measured with a Hydrolab Corporation H2O Scout 2 system. The Scout 2 System maintains a separate, submersible probe for each parameter and is designed to collect measurements in-situ. Specific conductance and pH probes were individually calibrated to standard solutions and the dissolved oxygen probe was calibrated based on an elevation/temperature conversion prior to collecting data at each transect. Measurements were collected in a similar manner to the stream flow measurements. Fifteen equal increments were identified along each transect. Water depth measurements were collected at the midpoint of each increment. The Scout 2 system maintains separate probes of varying lengths for each individual chemical and physical parameter. The length of the monitoring zone on the probe is 0.4 feet. Therefore, water quality measurements were collected at 60% of the total depth when the stream depth was less than two feet. When the stream depth exceeded two feet, water quality measurements were collected at 20%, 60%, and 80% of the total depth. During collection of the water quality data, the probe was placed upstream of the person collecting the data.

The Hydrolab H20 Scout 2 System provided fluctuating results for each of the four parameters, particularly dissolved oxygen and temperature. Measurements typically fluctuate from 1 to 3%. Representative values were selected by averaging the highest and lowest readings.

#### Surface Water Sampling

Surface water sampling was conducted as described in Appendix W of the RFI Work Plan. Surface water sample locations are depicted on Plate 51 of the Work Plan. All sample locations were accessible by foot. Grab samples were collected by submerging the sample container directly into the surface water. All containers were rinsed thoroughly with water from the sample location prior to collecting the sample. Samples were collected from below the surface to avoid any surface films. Field personnel wore dedicated gloves for each sample location and samples for TOX, TOC, and semi-volatiles were collected first at each location, while the remaining samples were collected in order of decreasing volatility as defined in Appendix W of the RFI Work Plan. All samples were collected upstream of the sampler so as not to disturb the sample during collection. Sample collection proceeded from downstream locations to upstream locations.

#### **SEDIMENT**

#### Sediment Thickness Determination

Soft sediment thicknesses were measured at fifteen locations across the primary and secondary transects of the Naugatuck River and the Branch Brook. Soft sediment thicknesses were also measured at 21 intermediate sample locations along the Naugatuck River and 30 intermediate sample locations along the Branch Brook. The intermediate locations were selected as likely depositional areas, quiescent and low flow velocity areas. Soft sediment depth was measured by inserting a 1/2 inch diameter rod into the stream bottom by hand. As explained in Section 27.1.2 of the RFI Work Plan, the depth of penetration indicates the thickness of fine grained material that has been deposited.

#### Sediment Sampling

#### Initial Characterization

Initial stream sediment sample collection at the transects and intermediate sample locations was performed with a hand held soil auger. The samples were catalogued in the field on a qualitative basis for color and grain size using the Burmister Soil Classification System. Based on this initial sampling, ten preliminary sampling locations were selected along the Naugatuck River and ten locations were selected along the Branch Brook.

#### Preliminary and Final Sampling For Analyses

Sediment samples collected for preliminary analyses and for contaminant characterization were collected with a Wildco hand held stainless steel sediment corer Model No. 2420-H45. Samples were removed from the sediment corer with dedicated wooden tongue depressors and placed into appropriate sample containers. Ice packs were used to preserve samples at 4 degrees Celsius immediately after collection.

The corer was inserted by hand into the sampling locations along the stream bottom. Samples were collected at multiple depths at three locations along Branch Brook; however, the density and grain size of sediments in the Naugatuck River prevented the collection of samples at multiple depths in the Naugatuck River.

#### Decontamination

The sediment corer was thoroughly decontaminated between collection of each sediment sample. The corer was scrubbed with alconox followed by a tap water rinse, a 20% methanol solution scrub and a final de-ionized water rinse.

#### **SEEPAGE METERS**

Three seepage meters were installed by hand in Branch Brook. Shallow watercourses with rocky stream bottoms in the Naugatuck River and in certain areas of Branch Brook prevented additional seepage meter installations.

A typical seepage meter is diagrammed on Figure 30-4 of the RFI Work Plan. The three seepage meters were not sampled for any analytical parameters as part of the site investigation. The meters were sampled; however, for discharge information for Branch Brook. Samples were collected as indicated in Section 30.3.1.1 of the RFI Work Plan.

t:\wp\envirite\report\fieldmet.ss

APPENDIX D BORING LOGS

Liquicon HENCE WELTI ASSOC., INC. PROJ \_ Ihomaston\_CI\_ "BORING LOG" CLIENT FUSS & O'NEILL TONBURY, CONN. 06033 BORING NO. BORING NO.\_\_\_\_ W-30 LINE & STA LINE & STA. GR. ELEY.\_\_\_\_ OFFSET\_\_\_\_\_ GR. ELEV BLOWS BLOWS STRATUM DESCRIPTION PER\_ STRATUM DESCRIPTION PER\_\_ gr.fine-crs.sand. gravel,boulders or 40 5 dumped ledge RUN 12 rec. 45\* gr.med.hard.badly broken gneiss rock blk.& gr.silt, tr.fine\_sand-BOTTOM OF BORING 51. 5' WATER AT 14.1 @ 0 hrd. WELL @ 48.0' 16.0 Materials gr.fine-crs.sand. occasional stones 10' screen(wrapped) 40' riser 20.0 1 protector pipe w/lock cored: boulders & cobbles WATER READINGS RUN #1 rec.39" 14.5' on 2/23/81 14.5' on 2/24/81 25.0 note:drilled casing br.fine-crs.sand, to bedrock tr.fine-crs.gravel, tr.silt.occasional DATE: 2/19/81 to 2/24/81 3"-6" cobbles DRILLER: BARACCO 45.0 1. COL. A strata depth

AND - 40 to 50%

2. COL. 8 \_

3. HANNER = 1401; FALL 30"

LASTON	BURY, CONN. 06033	"BOR			CLIENT_	FUSS & O'	NEILL
LINI	ING NO	21 2006		LINE OFFS	NG NOW- & STA ET LEV		
0.5	STRATUM DESCRIPTION	BLOWS PER	В	<u> </u>	STRATUM DI		BLOW PER
5,0	gr.fine-crs.sand, tr.fine-crs.gravel				gr.fine-crs dumped ledg		
	gr.fine sand.little silt w/fine-crs. sand layers						
14.0				12.0	gr.crs.sand	1 1	
15.0	possible dry paint end of fill @ 15' br.med-crs.sand,				fine-crs.gr occasional		
19.0 20.0	some fine-med.gravel						
	br.med-crs.sand, some fine-med. gravel						
				26.5		BORING 26.	
31.5			_		WELL @ 25.	.01	
	BOTTOM OP BORING 31 WATER AT 12.5 @ 0 h	. 5' rs.			Materials 10' scree	n (wrapped)	))
	MELL @ 27.0' Materials				17' riser 1 5' prot	ector pipe seal @ 13	w/loci
	10' screen (wrapped 18' riser 1 protector pipe w/				DATE: 2/2 DRILLER:		
	Bentonite seal # 15 Note: strong sweet 2 & 3	opor in sau	nples 25-26/8	1			

AND - 40 to 50% SOME - 10 to 40%

#### FUSS & O'NEILL, INC. CONSULTING ENGINEERS MANCHESTER, CT 06040

#### PROJECT/LOCATION

Envirite Corp.

BORING NO. MW-31B SHEET 1 OF 2 JOB. NO. 91-580

Thomaston, Connecticut

DRILLING C	0.	Arbor	Drilling

DRILLER Dave Kowaleski
FUSS & O'NEILL REPRESENTATIVE R.R.K. / C.J.F.

DRILLING METHOD Hollow Stern Auger

SAMPLING METHOD Split Spoon
HAMMER WT. 140 lbs HAMMER FALL (IN) 30

WATER LEVEL MEASUREMENTS

DATE MS. PT. WATER AT HR AFTER COMPLETION
02/08/93 Ground 12.00

_	ا يو ن			SAMPL	E		SAMPLE			-
HI740 (FT)	CASING blows/ft	NO.	DEPTH (ft)	PEN REC.	BLOWS	SOIL DENSITY	DESCRIPTION	USCS	FIELD TESTING	HI-HI-
0.0		G-1	0-2	Grab			SAND, F; trace M; little silt; trace mixed gravel and cobbles; dark yellowish brown.		0 ppm	0.0
2.0										2.0
4.0		s-2	5-7	11/11	5 80(57)		5-5.5': Sand, F, and to some silt; dark yellowish brown.		0 ppm	4.0
6.0							5.5-7': WOOD.			6.0
8.0										8.0
10.0		s-3	11-13	24/14	7 5		10.9': Wood ends per driller. SAND, F; trace M; and to some silt; grayish black, moist. Paint		146 ppm	10.0
12.0					5 6		odor.			12.0
14.0		S-4	15-17	24/4	2 5		Same as above, wet.		217 ppm	14.0
16.0					3 3		Ocassional cobbles and boulders.			16.0
18.0										18.0
20.0		S-5	20-22	24/14	8 24 18 14		20-20.5': SAND, VC-F; little to some silt; little F gravel; trace mica plates up to 1/4 inch; dusky yellowish brown.		24 ppm	20.0
22.0							20.5-22': Same as above, except trace gravel, moderate yellowish brown.		4 ppm	22.0
24.0		S-6	25-27		16 11		25-26.5': SAND, F-M; trace C and VC; trace to little silt; trace		34 ppm	24.0
26.0					15 18	1	gravel. 26.5-27': SAND, VC-C, subangular; trace M-F; trace silt; trace to		8 ppm	26.0
28.0							little granules; dark yellowish brown.			28.0

PROPO	RTIONS USED	BORING METHOD	DEPTH
TRACE	0 TO 10%	HSA	0 - 32
LITTLE	10 TO 20%	Spin Casing	16 - 33
SOME	20 TO 35%	NQ Core	33 - 47.2
AND	35 TO 50%		
perfilf\w	ellog04		

#### **REMARKS:**

FIELD INSTRUMENT = OVM 580B (isobutylene)
2" ID No. 10 Slotted Screen set 37 to 47 ft.
Rock Seal at 37 ft.

Bentonite Chips 33 to 37 ft.

NOTE: Geologic Log Based on Procedures
Described in ASTM Standard D 2488.

BORING NO. MW-31B

Ħ	JSS	& C	YNEI	L, IN	C.		PROJE	ECT/LOCATI	ON	BORING	NO. MW-	31B	
$\alpha$	ONS	UL:	TING :	ENGI	NEER	s $\lceil$	Er	Envirite Corp. SHEET_			T 2 OF 2		
M	AN	CHE	STER	L, CT	6040		Thomas	omaston, Connecticut  JOB. NO. 91-580					
DRILLING CO. Arbor Drilling DRILLER Dave Kowaleski FUSS & O'NEILL REPRESENTATIVE R.R.K. / C.J.F.						/ C.J.F.	BORING LOCATION  GROUND ELEVATION  DATE STARTED 02/08/93 DATE FINISHED 02/09/93						
			<del></del>		<u> </u>			,	WATER LE	VEL MEASU	REMENT	S	
				Hollow Split	Stem Au	uger		DATE	MS. PT.	WATER AT	HR AFTER	COMPLE	TION
					AMMER	FALL (I	N) <u>30</u>						
<del></del>	0 =			SAMPL	E					<u> </u>	<u> </u>		T_
E (F	CASIN	NO.	DEPTH (ft)	PEN REC.	BLOWS/	SOIL DENSITY	1	SAM DESCF			USCS	FIELD TESTING	
<b>30</b> .0		S-7	30-32	22/18	13 14 18 70 (4°)			.5': SAND, F-M; trace C and VC; trace to little silt; trace are to subangular gravel; dark yellowish brown with 3"				3 ppm	30.0
32.0					15(4)		moderate reddish brown band at 31 feet.				<del>                                     </del>	<del>                                     </del>	32.0
34.0							31.5-32': SAND, F-M; trace C; little silt; trace gravel; moderate brown (5YR 4/4).						34.0
36.0							32': Auger refusal.					<u> </u>	
36.0							Run #1: 33 to 40 feet.				_		36.0
38.0													38.0
40.0						<del></del>	Run #2: 40 to 47	7.2 feet. Biotite g	neiss, grayish	white, black	<del>                                     </del>		40
42.0							banded.				_		42.0
											<u> </u>		
44.0													44.0
46.0								End of Core	47.0 %				46.0
48.0								End of Cole	at 47.2 it.				48.0
									<del></del>				
						İ							$\vdash$
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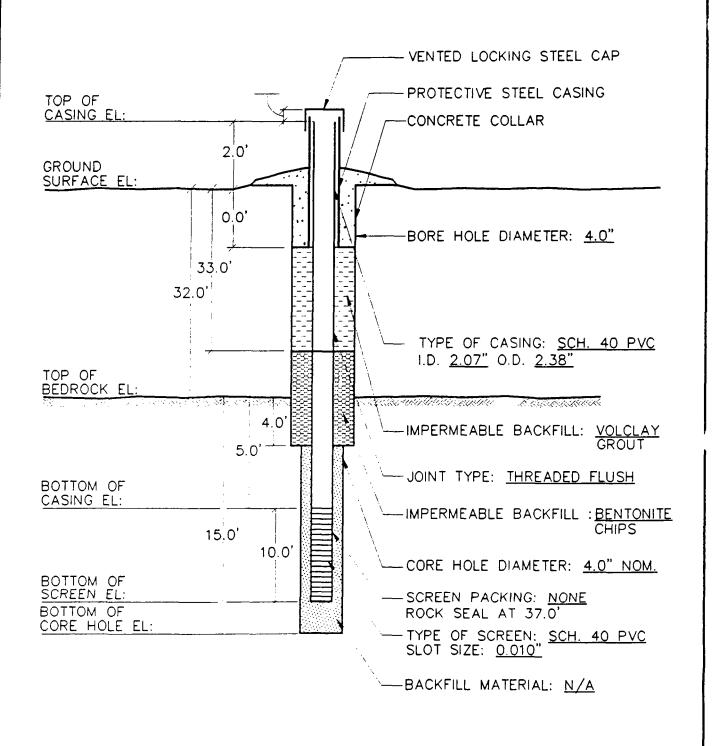
PROPORTIONS USED BORING METHOD DEPTH
TRACE 0 TO 10%
LITTLE 10 TO 20%
SOME 20 TO 35%
AND 35 TO 50%

NOTE: Geologic Log Based on Procedures
Described in ASTM Standard D 2488.

BORING NO.

MW-31B

#### WELL NO. MW-31B





WELL CONSTRUCTION DETAILS MW-31B

ENVIRITE CORPORATION

HARTFORD

CONNECTICUT

PROJ. NO. 91-580 DATE: JUNE 1993 SCALE: N.T.S.

FUSS & ONEILL, INC. ROCK CORE LOG MW-31B BORING NO. 1 CONSULTING ENGINEERS SHEET OF PROJECT: Envirite Corp. 91-580 JOB NO. MANCHESTER, CT 06040 LOCATION: Thomaston, Ct 2/9/93 2/9/93 **Arbor Drilling** DATE FINISHED: **DRILLING CO.:** DATE STARTED: DRILLER: Dave Kowaleski **GROUND ELEVATION:** NQ Core Barrel/Roller Bit 3 7/8" CORING METHOD: CORE DIAMETER: FUSS & O'NEILL REPRESENTATIVE: C. Frey COMMENTS DISCONTINUITIES LITHOLOGY CORE RUN LENGTH AND RECOVERY(%) TESTS
NSTRUMENTATION
CORNIGRATIEND
SMOOTHNESS
CORNIGRUUD LOSS COTE LOSS MINEROLOGY CLASSIFICATION COLOR GRAINSIZE ALIERATION FORMATIONNAME CEMENTATION
HAPDNESS
WEATHERED STATE
TEXTURE
ORIENTATION
SPACING 8 DESCRIPTION
TIGHTNESS OF SPACING A
PLANATTY SACOTHNESS T OFIENTATION ALTERATION STANING WEATHERING HPCNUES HB/RCOT GPAPHIC **B** FLING STRUCTURE 33 Core rate 0.6 100 Tight fractures, fresh, nonplanar. Granitic gneiss with poorly developed 2 ft./min. 91.4% No filling or staining. bands of biotite, grayish white, fine to ¥. Smooth coring medium grained. Core clean unweathered Little fluid loss with fresh breaks. 40 0.6 Core rate 100 Same as above. Same as above. 0.4 ft./min. 91.4% Smooth coring Little fluid loss 47 perfill/r-core3

#### MONITOR WELL COMPLETION REPORT

**GENERAL INFORMATION** 

Town: Thomaston, Ct Site: Envirte Corporation

Monitoring Point I.D. No.: MW-31B Date of Completion: 2/9/93

DEP/WPC I.D.:

Monitoring Point Location: (relative to site features)

Drilling Contractor: Arbor Drilling Supervising Engineer/Geologist:

Well Construction Method: 4" Casing, Roller Bit Chris Frey

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground Surface Elevation (MSL): Well Depth Below Ground Surface: 47 ft.

Top of Steel Casing Elevation (MSL): Refusal: Yes X No:

Top of PVC Casing Elevation (MSL): Screened Interval: 37 to 47 ft. :

Length of Screen: 10 ft.

Length of Riser Pipe: 39 ft.

Screen Type: Schedule 40 PVC Screen Slot Size: 0.010

Filter Fabric: Yes No X Screen Packing: Yes No: X

If Yes, Thickness:

Well Inside Diameter: 207 Material:

Grain Size:

Impermeable Backfill: Bentonite Chips

Well Casing Material and Schedule: Estimated K Screened Interval:

Schedule 40 PVC

Method of Well Development: Time Spent Developing;

Locking X or Threaded Cap Impermeable Backfill:

**Voiciay Grout** 

#### **MONITOR WELL COMPLETION REPORT (Continued)**

#### **BEDROCK WELLS**

Casing Length:

Water-Bearing Rock Unit: Gneiss

Water-Bearing Sections (Depths and Approximate Yields):

Length of Rock Cores: 7, 7,2 ft.

Diameter of Core Hole: 4 in.

Thickness and Depth of Impermeable Backfill: 33 to 37 ft.

O-ring Seals: Yes: X No:

#### **GEOLOGIC INFORMATION**

Aquifer: Shallow Bedrock

Inferred Relationship to Plume; Within Outside Edge

Watershed (Plume Discharge Watercourse): Naugatuck River

Aquifer Materials (Attach Boring Log):

Attach Maps and Plans Required of G.I.j. and G.4.

perfill\wcompl02 page 2 of 2

#### FUSS & O'NEILL, INC. **CONSULTING ENGINEERS** MANCHESTER, CT 06040

#### PROJECT/LOCATION

Envirite Corp.

BORING NO. MW-31D SHEET 1 OF 1

Thomaston, Connecticut

JOB. NO. 91-580

DRILLING CO. Arbor Drilling	BORING LOCATION ~ 5' North of MW-31B
DRILLER Dave Kowaleski	GROUND ELEVATION
FUSS & O'NEILL REPRESENTATIVE R. Kovach	DATE STARTED 02/10/93 DATE FINISHED 02/11/9

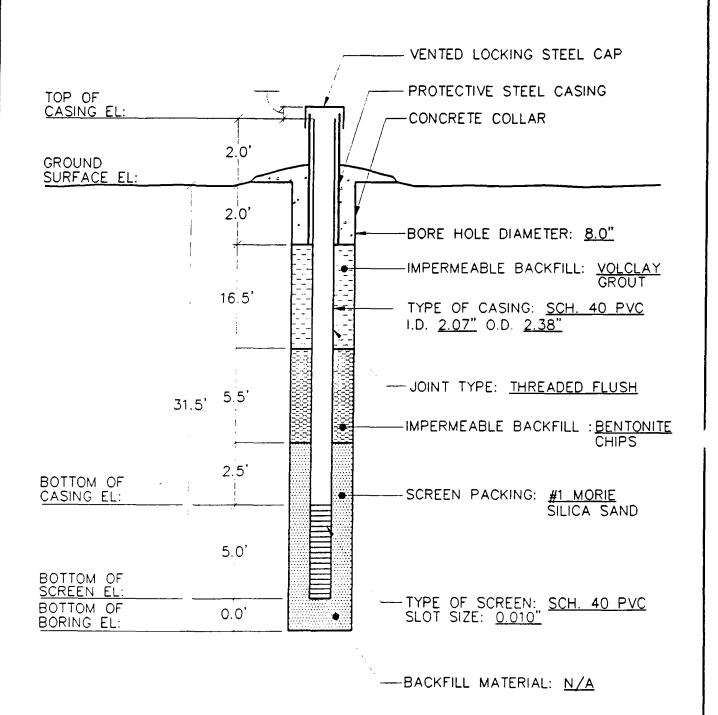
WATER LEVEL MEASUREMENTS DRILLING METHOD Hollow Stem Auger WATER AT HR AFTER COMPLETION DATE MS. PT. SAMPLING METHOD Split Spoon 02/10/93 13.00 Ground HAMMER WT. 140 lbs HAMMER FALL (IN) 30

_	o e		SAMPLE				CAMPIE	SAMPLE		
(FT.)	CASING blows/it	NO.	DEPTH (ft)	PEN REC.	BLOWS/	SOIL DENSITY	DESCRIPTION	USCS	FIELD TESTING	
							0-22': No samples taken. Refer to Boring Log for MW-31B for stratagraphic description.			
22.0		S-1	22-24	24/18	4 8 14 21		22-23.5': SAND, C-VC; trace to little F; trace to little silt; trace F-M subrounded gravel and granules.		0.6 ppm	22.0
23.0							23.5-24': SAND, F-M; little to trace C; little silt; trace gravel; dark yellowish brown, wet.			23.0
24.0		S-2	24-26	24/16	11 10 12 16		24-25': Same as above. 25-26': SAND, F-M; trace C; little silt; dark yellowish brown.		3-8 ppm	24.0
25.0										25.0
26.0		S-3	26-28	24/18	10 12 20 21		25-27': Same as above. 27-28': SAND, F-M; little C; trace to little silt; trace F-C		2 ppm	26.0
27.0							subrounded to subangular gravel; dark yellowish brown.			27.0
28.0		S-4	28-30	24/18	10 13 8 21		Same as above, except little gravel after 29.5 feet.		2 ppm	28.0
29.0										29.0
30.0		S-5	30-32	11/11	30 80 (5°)		SAND, F-C; little to some silt; little F-M gravel and greissic rock fragments; dark yellowish brown.		3 ppm	30.0
31.0							31.5': Auger refusal.			31.0
32.0										32.0
								-		

PROPO	RTIONS USED	BORING METHOD	DEPTH	REMARKS:
TRACE	0 TO 10%	HSA	0 - 31.5	FIELD INSTRUMENT = OVA 580B (ppm isobutylene)
LITTLE	10 TO 20%			0.010" PVC Screen set 26.5 to 31.5 ft.
SOME	20 TO 35%			#1 Morie Sand 24 to 31.9 ft.
AND	35 TO 50%			Bentonite Chips 18.5 to 24 ft. Voiclay grout 2 to 18.5 ft.
				NOTE: Geologic Log Based on Procedures
perfill\w	ellog04			Described in ASTM Standard D 2488.

BORING NO. MW-31D

#### WELL NO. MW-31D





WELL CONSTRUCTION DETAILS

MW-31D

ENVIRITE CORPORATION

HARTFORD

CONNECTICUT

PROJ. NO. 91-580 DATE: JUNE 1993 SCALE: N.T.S.

#### MONITOR WELL COMPLETION REPORT

GENERAL INFORMATION

Town: Thomaston, Ct Site: Envirite Corporation

Monitoring Point I.D. No.: MW-31D Date of Completion: 2/11/93

DEP/WPC I.D.:

Monitoring Point Location: (relative to site features)

Drilling Contractor: Arbor Drilling Supervising Engineer/Geologist:

Well Construction Method: Hollow Stem Auger

Robert Kovach

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground Surface Elevation (MSL): Well Depth Below Ground Surface: 31.5 ft.

Top of Steel Casing Elevation (MSL): Refusal: Yes X No:

Top of PVC Casing Elevation (MSL): Screened Interval: 26.5 to 31.5 ft. :

Length of Screen: 5 ft.

Length of Riser Pipe: 28.5 ft.

Screen Type: Schedule 40 PVC Screen Slot Size: 0.010

Filter Fabric: Yes No X Screen Packing: Yes X No:

If Yes, Thickness: 125 ft.

Well Inside Diameter: 2.07 Material: Morie Silica Sand

Grain Size: #1

Impermeable Backfill: Bentonite Chips

Well Casing Material and Schedule: Estimated K Screened Interval:

Schedule 40 PVC

Method of Well Development: Time Spent Developing;

Locking  $\chi$  or Threaded Cap Impermeable Backfill:

**Volclay Grout** 

#### MONITOR WELL COMPLETION REPORT (Continued)

#### **BEDROCK WELLS**

Casing Length: NA

Water-Bearing Rock Unit: N/A

Water-Bearing Sections (Depths and Approximate Yields): N/A

Length of Rock Cores: N/A

Diameter of Core Hole: NA

Thickness and Depth of Impermeable Backfill: N/A

O-ring Seals: Yes: No:

#### **GEOLOGIC INFORMATION**

Aquifer: Overburden

Inferred Relationship to Plume; Within Outside Edge

Watershed (Plume Discharge Watercourse): Naugatuck River

Aquifer Materials (Attach Boring Log):

Attach Maps and Plans Required of G.I.j. and G.4.

perfill\wcompl02 page 2 of 2

,		Gienn Drilli Fig. 1970 Colchester, C (203) 887~	Road t 064			PF	AOJECT	NAME	Fuss & O' Final Thomastor	<b>ロコー</b> コとら	BORIN NUMB MW-3
MILL	ER	Mike Deane		ARCHI						FILE NO.	No
		Rick		TYPE		Cour HSA	•	Semeler SS	Care Barrel	SURFACE ELEV.	• h
DATE	START	July 1, 1986		SIZE I	.D. ER WT,	3¼"		1½" 140#		LINE & STATION	<del></del>
DATE	FINISH			HAMM	ER FALL			30"		OFFSET	
2	γ		MPLE	OWS PEI	2 4"		COL.	STRATA	] _		
DEPTH	NO.	DEPTH RANGE	0.6	6-12	12-18	REC.	Â	CHANGE	FIELD CL	LASSIFICATION AND REI	
	S-1	0-1.5'	7	9	18	0.7		1	1	Brown Fine-Medium	Sand
		· · · · · · · · · · · · · · · · · · ·		<del> </del>				1	layers.		
5 '				<del> </del>				1			
	5-2	5.0'-6.5'	4	7	3	0.8		}	Brown Fi Boulders	ne-Coarse Sand. Col	obles a
			$\perp$		<del>                                     </del>		上	-		·	
10-	S-3	10.0'-11.5'	42	43	37	1.1		1	•	ine-Coarse Sand. Co	bbles:
			<del></del>	-	<del> </del>		1	1	Boulders	<b>.</b>	
15					-	<del> </del>	上	1			
,,	S-4	15.0'-16.5'	111	111	13	1.2	1	1	Brown Fi	ine-Coarse Sand. Tr	ace Si
			1	-	1		1	1			
20 ∽	S-5	20.0'-21.5'	21	42	37	1.2	士	1	Same as	above.	
			士		<del> </del>		1	1			
25 <del>'-</del>			士		1	1	士	╡			
	S-6	25.0'-26.5'	52	55	48	1.5	士	26.0		ine-Medium Sand arse Sand. Fine-Coa	irse Gr
			1			1	1	_			
30 <b>'-</b>	S-7	30.0'-30.8'	76	100	/ .3	0.8		3	Brown F	ine-Medium Sand. M	edium-
			干	-				-	Gravel.		
			干	1	-	Ŧ	+	7			
35 -	S-8	35.0'-36.5'	63	71	68	1.4	Ŧ	36.	5' Called	Hole	
			1	-	+	+	7	7		Steam Cleaning	
<u> </u>	二		工		工		工	<u> </u>	יין חר.	Gram Graning	
8 -	sp	LIDENTIFICATION	144 Cene	PENE D. WI.	TRATIO	r en 2"	O.D. 54		PROPORTIONS WIND \$ to	,	r <b>e</b> 13
7 0 0	— 5 — 5 — 8	iin wall tube Noisturbed piston Yen end rod Ash Sample	8.4	Ver	Loose Loose Loose Donse		7 Y	ory Seft oft USUIII UII	Hete 10 to	•	

#### Fuss & O'Neill BORING Gienn Drilling Inc. CLIENT\_ NUMBER Scott Hill Road Envirite MW-32D PROJECT NAME -Colchester, Ct Uo415 (203)887 - 3621Thomaston, CT SHEET LOCATION \_ No. 1 ARCHITECT 01 1 ENGINEER DRILLER Steve Cohen FILE NO. Cours Core Barret Sameler INSPECTOR \_\_ Rick SURFACE ELEV. \_\_\_ SS HW TYPE 4" 1%" DATE START July 22, 1986 \$12E 1.D. LINE & STATION \_\_\_\_ Air 140# HAMMER WT. 30" DATE FINISH July 22, 1986 HAMMER FALL \_ OFFSET\_ SAMPLE COL. STRATA BLOWS PER 6" FIELD CLASSIFICATION AND REMARKS ON SAMPLER CHANGE NO. DEPTH RANGE REC. 0-6 6-12 | 12-18 MW32 Con. 35'-5-8 35.0'-36.5' 9 1,5 5 9 Brown Fine-Coarse Sand. Trace Fine Gravel. 39.5' R-1 40.0'-45.0' Rock Gneiss with Schist and Vanes 9 of Quartz. 10 20 45.0' End of Boring: 45.0' Installed PVC Monitor Well Bottom set at39.0' H5.0' Screen: 30.0' Riser ከ¼ Hr. Steam Cleaning Protective Casing with Lock PENETRATION RESISTANCE SAMPLE IDENTIFICATION PROPORTIONS USED REMARKS 140 lb. Wt. letting 30" on 2" 0.5. Sampler SPLIT SPOON 0 to 10% Concuented Dentity Conceive Consistency Water o Hr. @ 14 THIN WALL TUBE Very Sen 10 to 20%

Sen M/51171

Sutt

uma 20 to 35%

36 to 50%

COL. A \_\_

UNDISTURBED PISTON

10-29

OPEN END ROD

WASH SAMPLE

AUGER SAMPLE

#### MONITOR WELL COMPLETION REPORT

#### GENERAL INFORMATION

Town: Transstan CT

Monitoring Point I.D. No.: MIU 320

DEP/WPC I.D. No:

site: Fruirite Corporation

Date of completion: 7.22.86

Tuesday

Monitoring Point Location (relative to site features): NW Corner; Adjacent to Branch Brook

Drilling Contractor: 6/enn Crilling, Inc.

Well Construction Method:

Supervising Engineer/Geologist:

Rick Christiana

Hollow Stem Auger; Air Hammer - 4" Casing WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground surface elevation (MSL):

337.24 ft.

Well depth below ground surface: 3%.

Refusal: Yes \_\_\_ No

Screened interval:

Top of casing elevation (MSL):

Length of Screen: 15.0 fl

Length of riser pipe: 20.0 ft

Screen type: 5% Hed PVC

Filter fabric: \_\_\_ Yes \_\_ No

Screen Slot size: , 0/0

39.5 ft to 24.5 ft

Screen packing: \_\_\_\_ Yes / No

If yes, Thickness: N/A

Material: N/A

grain size: N/A

2.0 in

Well inside diameter:

Well casing material and schedule: SCH to Type I FVC
Nethod of well development:

Locking or threaded cap \_\_\_\_

Impermeable Backfill: Gentante 5/c

Estimated K screened interval:/0 3

Time spent developing: 35 min

Impermeable backfill: Concrete Col

200	cock	Con	10
$\infty$		36.1	.13

Casing length: N/A

Water-bearing rock unit: N/A.

Water bearing sections (depths and approximate yields): N/A

Length of rock core: N/A

Diameter of core hole: N/A

Thickness and depth of impermeable backfill: N/A

O-rings seals: \_\_\_Yes \_\_\_ No N/A

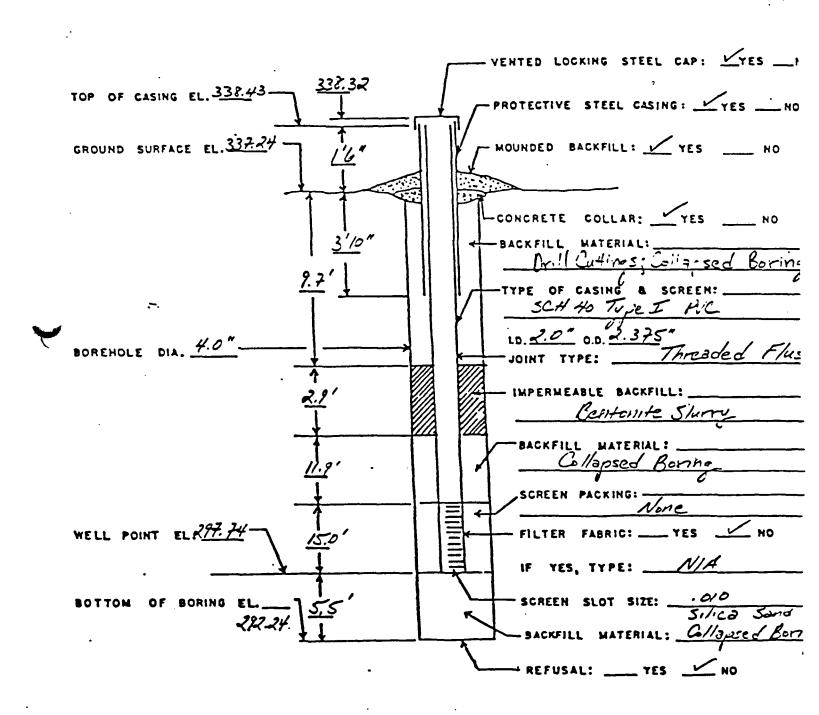
#### GEOLOGIC INFORMATION

Aguifer: Stranfied ling

Inferred relationship to plume: \_\_\_\_ Within \_\_\_ Outside NW Edge
Watershed (plume discharge watercourse): Naughtuck Ever; Branch Erook
Aquifer materials (attach boring log): Sand and Gracel
Attach maps and plans required of G.1.j. and G.4.

## MONITOR WELL INSTALLATION DETAIL FOR WELL IN UNCONSOLIDATED DEPOSIT

MW 320



#### Fuss & O'Neill BORING Glenn Drilling Inc. CLIENT\_\_\_ NUMBER Scott Hill Road Envirite 325 PROJECT NAME \_ Colchester, Ct 06415 (203)887-3621 Thomaston, CT SHEET LOCATION \_\_ No. 1 ARCHITECT a 1 ENGINEER DAILLER Roy Glenn FILE NO. Cours Core Barrel INSPECTOR \_\_ Rick\_ SURFACE ELEV. \_\_ TYPE SIZE I.D. DATE START \_\_\_\_ LINE & STATION \_\_ HAMMER WT. DATE FINISH HAMMER FALL . OFFSET\_ SAMPLE COL. STRATA BLOWS PER 5" FIELD CLASSIFICATION AND REMARKS CHANGE DEPTH RANGE ON SAMPLER REC. NO. 0-6 6-12 12-18 Same as 32D: End of Boring: 24.5' Installed 2" PVC MOnitor Well Bottom set at 24.0' 10.0' Screen; 15.5' Riser 1 Protective Casing with Lock 3/4 Hr. Steam Cleaning SAMPLE IDENTIFICATION PENETRATION RESISTANCE PROPORTIONS USED REMARKS 140 b. Wt. felling 30" on 2" O.O. Sempler SPLIT SPOON Cohosive Consistency trans 0 to 10% Concuenters Density THIN WALL TUBE UNDISTURBED PISTON Very Ser Ser M/SUH 10 to 20%

OPEN END ROD .

WASH SAMPLE

AUGER SAMPLE

mme 20 to 35%

36 to 80%

COL. A

9-15 SUM 16-30 V-41IM

#### MONITOR WELL COMPLETION REPORT

#### GENERAL INFORMATION

Town: Thurserson CT

Monitoring Point I.D. No.: MW 325

DEP/WPC I.D. No:

Site: Envirole Consoration

Date of completion: 2.3/.86 Thursday

Rick Christiana

Monitoring Point Location (relative to site features): 1/10 Depres Adjacont to Braich Circk Drilling Contractor: Glenn Crilling, Inc. Supervising Engineer/Geologist:

Well Construction Method:

Hollow Sten Auger; Air Hammer - 4 Casing

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground surface elevation (MSL):

337.54 fr

Refusal: \_\_\_ Yes \_\_ No

24.0=+ +0 14.0 fx

Well depth below ground surface: 21

Top of casing elevation (FSL):

Length of Screen: 10.0 fi

Length of riser pipe: 15 4 4 in

Screen type: 5/0 #kd P/C

Filter fabric: \_\_\_\_ Yes \_\_\_ No

Screen Slot size: .0/0

Screened interval:

Screen packing: \_\_\_\_ Yes \_\_\_ No

If yes, Thickness: N/A

Material: N/A

grain size: N/A

Impermeable Backfill: Bentonife Slun

Estimated K screened interval: /0

Time spent developing: One hour

Impermeable backfill: Concrete Co.

Well inside diameter:

2.0 in.

Well casing material and schedule:

SCH. +0 Type I PVC

Wethod of well development:

or threaded cap

Bed		<b>ما</b> د		1 7	_
Bec	ro	CK	WE.	1.1	3

Casing length: N/P

Water-bearing rock unit: N/A

Water bearing sections (depths and approximate yields): N/A

Length of rock core: NIA

Diameter of core bole: N/A

Thickness and depth of impermeable backfill: 1/1/4

O-rings seals: \_\_\_Yes \_\_\_ No N/A

#### GEOLOGIC INFORMATION

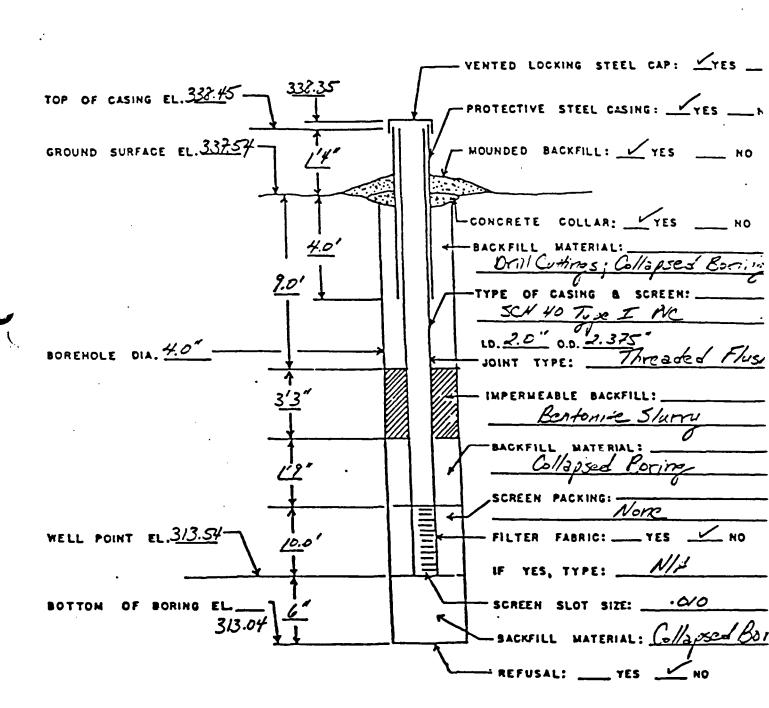
Aguifer: Stratified Orift

Inferred relationship to plume: \_\_\_ Within \_\_ Outside NW Edge
Watershed (plume discharge watercourse): Naugatus Liver; Branch Brack

Aquifer materials (attach boring log): Sand and Grave!

Attach maps and plans required of G.1.j. and G.4.

# MONITOR WELL INSTALLATION DETAIL FOR WELL IN UNCONSOLIDATED DEPOSIT



Liquicon PROJ Thomaston GT. LARENCE WELTI ASSOC., INC. "BORING LOG" CLADA ST ALASTONBURY, CONN. 06033 CLIENT FUSS & O'NEILL BORING NO W-33 BORING NO \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ LINE & STA. LINE & STA. OFFSET\_\_\_\_\_ OFFSET\_\_\_\_\_ GR. ELEY.\_\_\_\_ GR. ELEY.\_\_\_\_ BLOWS BLOWS STRATUM DESCRIPTION PER\_\_ В STRATUM DESCRIPTION PER\_\_\_\_ dumped ledge, gr.dumped ledge. some fine-crs.sand some fine-crs.sand & gravel,fill & gravel,fill 8.0 gr/br.med-crs.sand. some fine-crs gravel cobbles & small 12.0 boulders 14.0 blk. & br.fine-crs. sand & grayel. ers-fine-sand, cobbles & small gr/br.fine sand, boulders little silt . or/br.fine-crs.sand. tr.fine gravel & 20.0 rock frage. inbr.fine-med.sand layers cored: gr.soft solid gneiss rock RUN #1 rec.62" 26.5 BOTTOM OF BORING 26.5 WATER AT 13.4 @ 0 his. 29.7 WELL @ 25.0' BOTTOM OF BORING 29.17' WATER AT 13' @ 0 hrs **Materials** WELL @ 21.5' <del>10' sere(a (wrapped)</del> 17' riser Materials 1 - 5' protector pipe w/lock Bentonite seal @ 13 5' screen(wrapped) 19.5' riser DATE: 3/2/81-1 - 5' protector pipe w/lock DRILLER: BARACCO NOTE: 1 bag cement & 1/2 bag VO USED ON JOB

Trie Printer

1: COL. A <u>strata depth</u>

AND - 40 to 50%

	P. Gia	D. Bo= 9	V, CT 06033	131 Springfiel	87 Main :	Street 01103	*1	TOJECT		Fuss & 0' Liquacon Thomaston			BORING NUMBER B-36
•	,		T. Carpenter		ARCHI ENGIN	TECT		004110	<u></u>			NO	No1
		-	C. Cvr		TYPE		Co.	•	Samoier	Core Barrel	ł	ACE ELEV.	
- 1			10/1/82		ľ	D. ER WT. ER FALL		1	3/8" .40		}	& STATION	
-				MPLE						<del></del>	Jorrs	5 ·	
	DEPTH	NO.	DEPTH RANGE	BLO	SAMPL		REC.	COL.	STRATA		ASSIFI	CATION AND RE	EMARKS,
			 	<del> </del>		<b> </b> -		<del> </del>	1	Br Fine	LaW_	Sand, Tr. S	416
1			· · · · · · · · · · · · · · · · · · ·						1	Occasion			110,
1	۰۶	Sl	5.0-6.5	6	7	8	14"	<del> </del>	1	}			
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								<u> </u>	<u> </u>	<u> </u>			<del></del>
- }	10'	S 2	10.0-11.5	9	8	13	12"	<del> </del>	-				
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1		<b> </b> -			<del> </del>	<del> </del>	<del> </del>	╂	-{		•		
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٠,	1.5 <u>'</u>	S3	15.0-16.5	3	5	7	16"	-	-{				
	_								7			•	
				+	<del> </del>	<del>                                     </del>	+	1	}	Br. Fine	San	d, Tr. Silt	
	20'	54	20.0-21.5	10	9	12	8"	1	7			•	
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					-	<del></del>	-	-	7				
	25'	85	25.0-26.5	6	6	9	12"	1					
	l	<b>—</b>	<del> </del>			-		-	-{	}			
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			30.0 32.3					1_	<b>]</b> 31.	5 -			
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الانسان الانسان						1			_	1 Loc			
	ا								J				
7			E IDENTIFICATION		PENET b. Wt. 1 ionless D		" on 2"	O.D. \$24		PROPORTIONS U	1	REMARKS:	
	T -	Th	HIN WALL TUBE NDISTURBED PISTON	-		Loose		-2 Ve	ry son	little 10 to 2	ox		
	- W	_ w	PEN END ROD ASH SAMPLE	10-29 30-49 50 •		Dense Dense Dense	9	-8 M, -15 St		some 20 to 3 and 35 to 5	1	COL. A	
	A -	AI	UGER SAMPLE	1	~ <del>~</del> )				31111		1		

#### GZA GEOENVIRONMENTAL, INC Boring No. MW-37D Consulting Engineers/Geologists/Environmental Scientists Page 1 of ENVIRITE THOMASTON, CONNECTICUT 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 File No. 41182 Chkd. By: ЛG Casing Groundwater Readings 3oring Co. GZA GEOENVIRONMENTAL, INC Sampler Casing **HSA** S.S. Date Time Stab. Time Foreman Ron Holman Type Depth I.D./O.D. 2" O.D. G7A GeoEnvironmental Rep. Al 140 LB. Al Augustine Hammer Wt. Date Start 5/4/94 End 5/4/94 Hammer Fall 30" Location Other GS.Elev. Datum D P T H CB SL NW GS Sample Information Sample Stratum R M K S Equipment Installed Pen./ Rec. Depth (Ft.) Blows/6" Field Description & Classification Description No. Test Data See the Boring Log for MW-37B for sample depths and stratum descriptions 10 Grout 0'-22' 2" PVC riser + 3'-27' 20 Bentonite seal 22'-25' 25 Sand 25'-32' 30 2" PVC screen 27'-32'

stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

R M K

Boring No. MW-37D

## GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

## ENVIRITE THOMASTON, CONNECTICUT

 Boring No. MW-37B

 Page
 1
 of
 3

 File No.
 41182

 Chkd. By:
 JTG

	oring C	o. GZA	GEOENVI	RONME	NTAL, INC			Casing	Sampler		Grou	ndwat	er R	cadi	ngs			
F	oreman	R	Ron Holman	n		Туре	e	HSA	S.S.	Date	Time	De	pth	T	asin	g	Stab. Time	_
	ZA			<u></u>		I.D.,	/O.D.	6"- 4"	2" O.D.									
	lep.	ronmenta A	u M Augustine	c		Han	nmer Wt.		140 LB.									
ľ	Date Star	rt 4/26/9	4	End 5/4	/94	Han	nmer Fall		30"									
L	ocation	Sec	e Pian			Othe	er	NQ Core						$\mathbf{L}$	_			
C	S.Elev.			Datum											_			
Ę		Sai	mple Inform	nation				Sa	mple		Stratun	1	R	Eq	uipr	nent	Installed	_
P T I	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Core time (min/ft)	RQD	l	Description &	Classification		Description	n	M K S					
Γ	S-1	24/12	0-2	2-4			Medium	dense, brown, f	ine to medium								••	
				10-22			SAND,	little Silt, trace C	Jiganic	İ						L,	Grout	
											FINE TO	Q.				Γ`	0'-48'	
											SAND AND	•	1.					
	,										BOÜLDE	RS		$\  \cdot \ $				
	S-2	3/3	5-5.2	100/3			Very de	nse, black-grey, i AND and GRA	fine to VFI trace Silt									
							Coarse	MIN and OIL.	V LL, Hace on									
	<u> </u>			<u> </u>			]							[-	+	⊢ 2 ris	PVC er	
							]				9.0*						0'-55.7'	
1	ا			<u></u>			]			1								
-	S-3	24/8	10-12	56-52			Very der	nse, brown, fine and GRAVEL, to	to coarse	1			2.					
ı				30-17			ן טרוויט ע	IIIO OIVI V DD, II	race one									
•							}			j								
1.	ــــا،																	_
"	S-4	24/6	15-17	65-65			Very der	nse, brown, fine little fine Gravel	to coarse					[ : ]	-			
				21-15			JAN 12, 1	ittle iiie Gia.c.	, trace on.									
		ļj				<u> </u>					FINE TO	<b>,</b>						
		<u> </u>									COARS SAND	E]						
2	0										AND GRAVE							
-	S-5	24/1	20-22	76-62			Very der	nse, brown-grey, AND, little fine	fine to		Old I .	, <b>L</b>						
				15-15			trace Sili	t	Otavei,									
ĺ	S-6	24/10	22-24	20-18			Dense, t	prown, fine to co e Gravel, trace S	arse SAND,									
				17-24			little init	5 Olavel, ilace 5	411	1					11			
2.	S-7	24/9	24-26	35-23			Dense, b	prown, fine to co	arse SAND,									
-	<u> </u>			14-16			indic in.	, Giavei, mace 2		ĺ								
	S-8	24/6	26-28	12-15				dense, brown, fi										
				12-15			GALAD, I	ittle fille Glaver,	, trace one									
	S-9	24/8	28-30	20-18				prown, fine to con Gravel, trace S										
L		<u> </u>		15-21			muze mae	. Graver, trace 5							Ш			
F e n		1. Auge 2. Pull s	r refusal at pin shoe ar	3.0 feet; 6 nd drive ca	" casing drive sing to comp	n to 3.0 letion.	)' <b>4"</b> .											

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. MW-37B

## GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

### ENVIRITE THOMASTON, CONNECTICUT

Boring No. MW-37B Page 3 of 41182 File No. Chkd. By: ЛG

30	ring Co	o. GZA	GEOENVI	RONME	VTAL, INC			Casing	Sampler		Groun	dwater	Reac	lings		
Fo	reman	R	on Holman	1		Тур	•	HSA	S.S.	Date	Time	Depti	1	Casi	ng	Stab. Time
G2	ZĄ .		•			I.D.,	/O.D.	6"- 4"	2" O.D.							
Re		onmenta A	ı I Augustine	•		Han	nmer Wt.		140 LB.							
Da	te Star	t 4/26/94	1	End 5/4	1/94	Han	mer Fall		30"			_				
Lo	cation	Sec	Plan			Othe	: :	NQ Core			i		$\Box$			
GS	Elev.			Datum												
D		Sai	mple Inform	nation				S	ample		Stratum	ı R	E	quip	ment	Installed
D P T H	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Core time (min/ft)	RQD		Description &	& Classification		Description	ı K				
	S-10	24/8	30-32	18-18			Dense, t	prown, fine to c Gravel, trace	oarse SAND,					Т	]	
				15-15		<u> </u>	little fine	e Gravel, trace	Silt		FINE TO COARS	E			ļ	
	S-11	24/11	32-34	8-14			Dense, b	rown, fine to c	oarse SAND		SAND AN GRAVE			200	⊢،	Grout
				16-17			little Gra	avel, trace Silt			34' +/-		H			0'-48.0'
	S-12	24/2	34-36	19-21			Dense, b	rown, fine to n	nedium SAND,	Ī						
35				18-16			trace Sili	l								-
	S-13	24/4	36-38	17-13			Medium	dense, brown,	fine to medium	İ	FINE TO MEDIU			十		2" PVC ser
				12-13			SAND, t	trace Silt			SAND					0'-55.7'
	S-14	24/5	38-40	8-14			Dense, b	rown, fine to n	nedium SAND,					] :		
				1617			trace Silt	į			40.0'					
40	S-15	24/8	40-41.9	16-40			Very der	nse, brown-grey	, fine to				Ш			_
				52/100	/4"		medium Gravel (	SAND, some Sweathered rock	Silt, little fine (fragments)				Ш			
	S-16	24/3	42-42.5	100/5"	•		Very der	nse, brown-grey	fine to	ĺ						
1							Gravel (	SAND, some S weathered rock	oilt, little tine : fragments)					1		
	S-17	24/6	44-46	51-49			Very der	nse, brown-grey SAND, some S	fine to		WEATHER ROCK		Ш			
45				44-42		i	Gravel (	SAND, some S weathered rock	fragments)							
	S-18	24/4	46-48	25-31			Very der	ise, grey-brown	, fine to			1	11		i	
				22-22			coarse G	RAVEL		i			1.1			
	S-19	11/4"	48-48.9	35-						- 1						
			-	100/5"							50.0'					
50	C-1	44/42	50-50.3		6:15	23	C-1 and White, g	rey, black, frest	to slightly			3	. 🎆			Bentonite
					6:42		to mediu	ed, very hard, ve im fractured, ve	ry intensely						cn	ips 48.0'-53.0'
					6:00		to coarse	strongly foliate grained biotit	e-quartz							
	C-2	60/56	53.7-		2:40	48	from ver	oliation dips 60 tical; 30 degree	s from		Chicke	.   4				
55			58.7		3:35		horizonta	aij			GNEISS		<b>***</b>			
22					4:50		C-3:	no man frant -	mar board	j		5		_		_
					2:00		medium	ey, grey, fresh, v fractured, very	intensly					-	- F	Filter sand
					2:50		grained I	strongly foliate nornblende-bio	tite-feldspar-		58.0'			$\exists$		53.0'-65.7'
	C-3	60/60	58.7-		5:10	87	degrees f	neiss (foliation from vertical; 1	5 degrees	Γ	BLACK GN	EISS				
			63.7		7:00		foliation	rizontal; fractur )	es paranei	-	59.5'			$\dashv$		

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tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

Casing refusal at 50.0 feet.
 New core bit.
 Sand in frac. 56-57.
 Hole opened up after core to 3 7/8 to 54' for chip placement.
 10 foot, 2" screen 65.7 to 55.7. Sand 65.7 to 53.0. Chips 53 to 48. Grout to surface.

G	ZA G	EOEN	IVIRON eers/Geole	MENTA	AL, INC. ironmental S	cientists						1	-	. MW-37B
27	Nack R	load		- <b></b>				THOMAST	ENVIRITE	B SECULOI ET		l	Page	3 of 3
(2	ernon, C 03) 875-	7655	cut 06066					THOMAST	ON, CON	NECTICUT			Chkd. By:	41182 JTG
_ .}	ring Co	GZA	GEOENV	IRONME	NTAL, INC		Casing	Sampler		Grou	ndwat	er l	Readings	310
•	reman		on Holma		······································	Тур		S.S.	Date			pth	<del></del>	Stab. Time
	ZA coEnviro				<del></del>		/O.D. 6"- 4"	2" O.D.				-	1 -	
Ge Re	oEnviro p.	nmenta A	il J Augustin	ie		Han	nmer Wt.	140 LB.						
Da	ite Start	4/26/9	4	End 5/4	4/94	Han	nmer Fall	30"						
Lo	cation	s	ee Plan			Oth	er NQ Core							
	S.Elev.			Datum			T					_	<del></del>	
D P T	ļ <sub>.</sub>		mple Infor		T	<del></del>	1	Sample		Stratun		R M K S	Equipme	ent Installed
T H	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Core time (min/ft)	RQD	Description	& Classification		Description	1	S		
					4:40		C-3:					Γ		
					5:00		White, grey, black, fres hard, medium fracture intensely banded, story	d, very						- Filter sand 53.0'-65.7
				ļ	6:40		foliated, medium- to or grained biotite-quartz	Jarsc-		GNEIS	s			- 2* PVC
	C-4	24/24	63.7-	<u> </u>	2:30	100	gramos oromo quanta	<b>5.14100</b>						screen 55.7'-65.7
65	$\vdash$		65.7	<del> </del>	3:20	<del>                                     </del>								
				<b>†</b>						65. <i>T</i> °		7		
	$\vdash$		<u> </u>	1		-			}		F	4		
	$\vdash$			<del> </del> -		<del> </del>				END O	MOLT	1		
	$\vdash$			<del> </del>	<del> </del>	<del>                                     </del>						l		
70				<del>                                     </del>	<del> </del>									
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80	-	<u></u>		<del> </del>		<del>                                     </del>								
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j_ tr	atifica	ation	lines rer	oresent a	poroximate	bours	laries between soil	types, transit	ions may	be gradua	1. 4	Jat.	er level	
ea	dings h	nave b	een made ose prese	at times	and under	condi	laries between soil tions stated. Fluc ents were made.	ctuations of gr	oundwate	r may occu	r due	et		
			our prese		CINE INCO	.Jui CIIR	HEIC HEICE.					ſ	Boring N	o. MW-37B

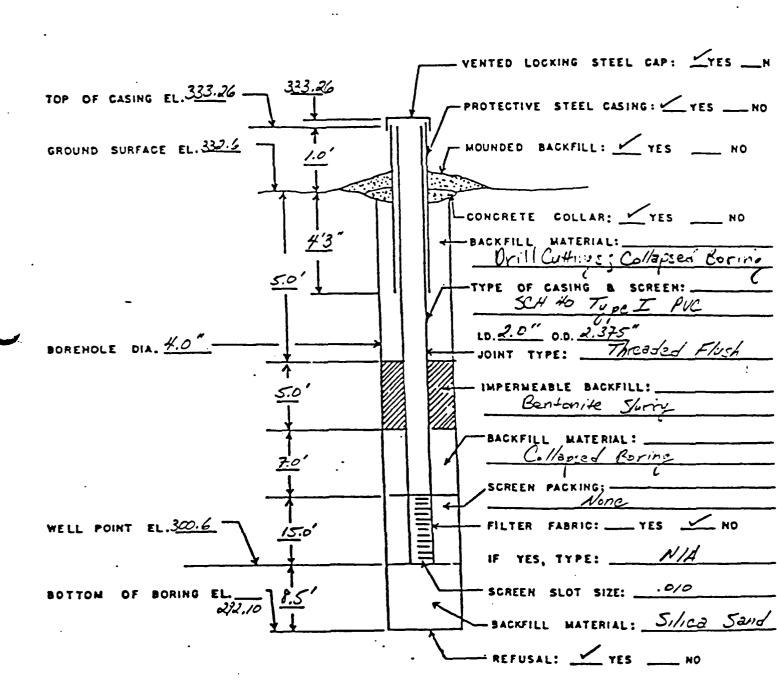
				L, IN		PRO Envirit	DJECT/LOCA	TION		BORII	NG NO	MW-41B OF	
				GINEE						4	NO	88-461	
	LIN	G CO.	We	ti			BORIN	G LOCAT	ION				
`>n	_	₹		2			GROU	ND ELEVA	NOITA				
FUS	SS &	O'NEIL	L REPR	ESENTA	TIVE J. S	axton	DATE	STARTED					===
DR	LLIN	G MET	HOD _	HSA			DATE	WATE MS. PT.		L MEA	SUREMEN	TER COMPLETE	ON
SAI	MPLI	NG ME	_	Core					<u> </u>	(A) E() A)	1	TEN COMPECT	<u> </u>
		R WT.			MMER FALL	(IN) <u>30'</u>	<u> </u>	L		<del></del>	<u> </u>	<del></del>	<del></del>
DEPTH (ft.)	CASING	NO.	DEPTH (ft.)	PEN REC	BLOWS/	SAMPLE (	DESCRIPTION	<b>N</b>	STRA CHAN GE DESC	IGEI N.	WELL CONST. DETAILS	FIELD TESTING	REMARKS
						Loam, Sandy bl	ack						
			<del> </del>	<del>-}</del>	<del> </del>				}				
	$\vdash$		+	<del></del>	<del> </del>				Ì	}			
_			5-6.5	18/12	4/7/17	Sandy, medium	to coarse						
5			15 0.5	10/12	4///1/	trace pebbles,							
			1	1		, <u> </u>			7.0				
			!						1.0				
								•	9.0				
10			<del> </del>	ļ					į				
			10-N.5	6/4	59	Gravel, medium				{	•		
				<del> </del>		brown, matrix	supported, s	aturated					
				<del> </del>					}				
15		<del></del>	15-16.	18/12	44/51/44	Gravel and san	d. coarse.			1			
15						pebble; blackis	sh-brown						
		···	<u> </u>	J									
			<del> </del>	<del> </del>	<del> </del>		•						
			<del> </del>	<del> </del>					:				İ
20	-		20, 21, 6	10/1/	55/51/31	Same as above, 1	lost bottom	of sample	21 0				
			120-21	18/14	15 /16 /66			or anpr	2.0	1			
								ı					
:													
25				ļ				!					
-			25-26.5	18/18		Sand, coarse to v	very coarse,						
,			<del> </del>			reddish brown		:					
	<del>  </del>			<del> </del>									
20				<del>                                     </del>				1			-		
30			30-31.5	18/	19/22/25	Sand, medium to o	coarse, brow	n,		1			
						trace pebbles	•	•		İ			
			<b> </b>	ļ					1				
						~							
PRO	POR	TIONS	USED	BORING	METHOD	DEPTH R	EMARKS:		L		<del></del>	<del></del>	
TRA	CE	O TO	10%			<u> </u>	FMVIIVA.	:					
LITT		10 TO 20 TO											
AND			50%										
	G												
	랅	<b>(O)</b>		· · ·								BORING NO	).
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MANCHESTER, CT 05040  CONSULTING ENGINEERS  TILING CO. Welt:  Transton, Correcticut  SORING LOCATION  GROUND ELEVATION  PUSS & O'NEUL REPRESENTATIVE J. SEXTON  BARRIER J. SEXTON  GROUND ELEVATION  DATE STARTED J. STRATE  MS. PT. WATER LEVEL MEASUREMENTS  SAMPLE BARRIER LEVEL MEASUREMENTS  SAMPLE BARRIER LEVEL MEASUREMENTS  SAMPLE BARRIER LEVEL MEASUREMENTS  SAMPLE BARRIER LEVEL MEASUREMENTS  SAMPLE BARRIER LEVEL MEASUREMENTS  SAMPLE BARRIER MS. PT. WATER AT I PRAFTER COMPLETE  HAMMER PT. HAMBER FALL (IN)  STRATA  SAMPLE BECRIPTION  E STRATA  SAMPLE BECRIPTION  E STRATA  SAMPLE BECRIPTION  GROUND ELEVATION  STRATA  CHARGE  CHARGE  PROPORTIONS USED BORING METHOD OF THE PROPORTION CONT.  RETORITE  45  45  60/50  60/60  50  60/60  1/2" thick, white foliation (I."  argile to core  45  60/60  50  60/60  50  60/60  50  60/60  50  60/60  50  60/60  50  60/60  50  60/60  50  60/60  50  60/60  50  60/60  50  60/60  50  60/60  50  60/60  50  60/60  50  60/60  50  60/60  50  60/60  50  60/60  50  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/60  60/	FI	JSS	S & O	'NEI	LL, INC		PR	OJECT/LOCA	TION	1	BORII	NG NO.	MW-41B	
Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   C	M	ANC	CHES1	TER, C	CT 0604	0	Envirite Con	poration			SHEE	T_2	OF _	2
TRILLER  JOE PAULICE  FUSS & O'NEILL REPRESENTATIVE  J. SONTON  DATE STARTED 12/27/81 DATE FINISHED 12/3  DATE STARTED 12/27/81 DATE FINISHED 12/3  DATE MASTER COMPLET  WATER LEVEL MEASUREMENTS  DATE MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER COMPLET  MS.FT. WATERAY MS.AFTER  MS.FT. WATERAY MS.AFTER  MS.FT. WATERAY MS.AFTER  MS.FT. WATERAY MS.AFTER  MS.FT. WATERAY MS.AFTER  MS.FT. WATERAY MS.AFTER  MS.FT. WATERAY MS.AFTER  MS.FT. WATERAY MS.AFTER  MS.FT. WATERAY MS.AFTER  MS.FT. WATERAY MS.AFTER  MS.FT. WATERAY MS.AFTER  MS.FT. WATERAY MS.AFTER  MS.FT. WATERAY MS.AFTER  MS.	CC	NS	ULTIN			RS	Thomaston, C	annecticut		]	JOB.	NO	88-261	
PIUSS & O'NEILL REPRESENTATIVE J. SOXTON DATE STARTED 12/27/81 DATE FINISHED 1/3/  DRILLING METHOD SAMPLING METHOD DATE MATERILEVEL MEASUREMENTS  DATE ME PT. WATERILEVEL MEASUREMENTS  DATE ME PT. WATERILEVEL MEASUREMENTS  SAMPLE DESCRIPTION CHARGE CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE O								BORIN	G LOCATI	ON				
DRILLING METHOD	ואס	ILLE	R	Joe	Faulkner						4			
DATE   MS. PT.   WATER AT   HRAFTER COMPLET   SAMPLING METHOD   HAMMER FALL (IN)   DATE   MS. PT.   WATER AT   HRAFTER COMPLET   SAMPLING METHOD   HAMMER FALL (IN)   DATE   MS. PT.   WATER AT   HRAFTER COMPLET   SAMPLING METHOD   HAMMER FALL (IN)   DATE   MS. PT.   WATER AT   HRAFTER COMPLET   SAMPLING METHOD   HAMMER FALL (IN)   DATE   MS. PT.   WATER AT   HRAFTER COMPLET   CHANGE   CONST.   DATE   MS. PT.   WATER AT   HRAFTER COMPLET   CHANGE   CONST.   DATE   CHANGE   CONST.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.   DESCRIP.	FU:	SS &	O'NEIL	L REPR	ESENTAT	IVE J. S	axton	DATE						/3/90
NAMMER WT.   NAMMER FALL (IN)   STRATA   WELL CONST.   SAMPLE   DESCRIPTION   STRATA   WELL CONST.   GEN.   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESCRIPTION   DESC	DRI	ILLIN	IG MET	HOD _				DATE						DI ETION
SAMPLE   SAMPLE   SAMPLE   SECRIPTION   CHANGE   CONST.	SAI	MPLI	ING MET	THOD			<del></del>	DA.E.	M.S. 7 1.		AILN AI	1	AT TEN COM	CEMON
35-365   18/18   12.23.19   Gravel, med. sand to pebble, redthish brown   Bentonite					HAN	MER FALL	. (IN)					<u> </u>		<del></del>
35-365   18/18   12.23.19   Gravel, med. sand to pebble, redthish brown   Bentonite	£,	SE	<b> </b>			1 21 2112	CAMBIE	neconintioi				WELL		D D D
35-365   18/18   12.23.19   Gravel, med. sand to pebble, redthish brown   Bentonite	SE P	CAS	NO.				SAMPLE	DESCRIPTION	1	GEN	€. }	CONST.	FIEL	D D
### PROPERTIONS USED   BORING METHOD   DEPTH   REMARKS: 10' screen   40' 17.5' some   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20'%   40' 10' 20	-35-	1	<del> </del>				Gravel, med, san	ri to pebble		0230.			, ,,,,,,,	
Core-of-bedrock   Greiss, several bands of mica   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to core   1/2" thick, white foliation (ELS" angle to c		-	<del> </del>	1 33	1 207 20	1	reddish brown		·		+-		-	
### Companions used   Boring Method   Depth   Remarks:   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   47' rises   10' screen   4				†				•	ł		}	BEILUIL	.02	
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### ### ### ### ### ### ### ### ### ##											-	. <del>-</del>	- 1	
FROPORTIONS USED   BORING METHOD   DEPTH   REMARKS:   10' screen   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser					48/48						}			
FROPORTIONS USED   BORING METHOD   DEPTH   REMARKS:   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   10' screen   1									- 1		}			}
FROPORTIONS USED   BORING METHOD   DEPTH   REMARKS:   10' screen   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser   47' riser	45													
FROPORTIONS USED   BORING METHOD   DEPTH   REMARKS:   10' screen   47' riser   10' to 20' some   20 to 35' sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 21' screen   47' to 22' south   47' riser   47' to 25' sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 21' screen   47' to 25' sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5   Sand to 37.5	75			<u> </u>			·							
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PROPORTIONS USED BORING METHOD DEPTH TRACE 0 TO 10% Harmer 4" casing 0-36" AND 35 TO 50% AND 35 TO 50% BORING DEPTH AEMARKS: 10' screen 47' riser depth @ 55' sand to 37.5 bentomite pellets 36-37.5' grout to 2'				ļ	60/60				}					
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PROPORTIONS USED   BORING METHOD   DEPTH   REMARKS: 10' screen   TRACE   0 TO 10%   Harmer 4" casing   0-36'   SOME   20 TO 35%   AND   35 TO 50%   3' diam bit core   36-55'    The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the sec					60/60				1			Ë.		
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Hammer 4" casing 0-36'  SOME 20 TO 35%  AND 35 TO 50%  Hammer 4" casing 0-36'  3' diam bit core 36-55'  Sand to 37.5  bentonite pellets 36-37.5'  grout to 2'								EMARKS:	10'	screen	1			
SOME 20 TO 35% 3' diam bit core 36-55'  AND 35 TO 50%  Send to 37.5  bentonite pellets 36-37.5'  grout to 2'	LITT	LE		200/					47'	riser				
bentonite pellets 36-37.5' grout to 2'			20 TO	35%	s cham t	orr core	30-33							
grout to 2'	ANU		35 (0	30%			-					s 36-37	.5'	
		ſ		-	<del></del> -		<del> </del>		gra	t to 2	, <b>1</b>			0.1/0
cerrent 0-2' BORING NO MW-41B		3		}			<del> </del>		сете	int 0-2				

#### BORING Glenn Drilling Inc. Fuss & O'Neill CLIENT\_\_\_\_ NUMBER Scott Hill Road Envirite 41-D PRUJECT NAME \_\_\_ Colchester, Ct 06415 SHEET (203)887 - 3621Thomaston, CT LOCATION \_ Na 1 ARCHITECT a <u>1</u> ENGINEER DRILLER Steve Cohen FILE NO. Core Sarrel INSPECTOR Rick SURFACE ELEV. SS TYPE 4" 1%" DATE START July 16, 1986 SIZE I.D. LINE & STATION\_ 140# HAMMER WT. 30" DATE FINISH July 21, 1986 HAMMER FALL OFFSET\_ SAMPLE BLOWS PER 6" ON SAMPLER COL. STRATA FIELD CLASSIFICATION AND REMARKS CHANGE NO. DEPTH RANGE REC. 6-12 12-18 Sand Fine-Coarse. Fine-Medium Gravel 5-1 14.5'-16.0' 10 9 14 0.8 Trace Silt. 12 14 11.0 19.5'-21.0' 20 -Fine-Coarse Sand. Little Silt. 24.5'-26.0' 3 2 0.9 S-3 25 S-4 29.0'-30.5' 1.5 8 30.51 30 -28 Rock Gniess, Boulders 29 31 40 35.5 55 35<sup>+</sup> Bedrock Gneiss R-1 35.5!-40.5! 3.6 7 5 5 10 9 40\* 40.51 End of Boring: 40.5' Installed PVC Monitor Well Bottom set at 34.0' 15.0' Screen; 20.0' Riser 3/4 Hr. Steam Cleaning 1 Protective Casing with Lock SAMPLE IDENTIFICATION PENETRATION RESISTANCE PROPORTIONS USED REMARKS: 140 b. Wt. falling 30" on 2" O.D. Sampler SPLIT SPOON FREE 0 10 10% Concurs Consulancy Canadionies Density Water O Hr. @ 10.0' THIN WALL TUBE 04.7 Very Sen Hem 10 to 20% UNDISTURBED PISTON Sett M/SUII e 20 to 35% OPEN END ROD COL. A 30-25 Blows on Cos 5011 V-51111 WASH SAMPLE 36 to 80% AUGER SAMPLE 35 . 40 mine per fine

## MONITOR WELL INSTALLATION DETAIL FOR WELL IN UNCONSOLIDATED DEPOSIT

MW 410



#### MONITOR WELL COMPLETION REPOR

#### GENERAL INFORMATION

Town: Thomaston CT.

Monitoring Point I.D. No.: Mンサル

DEP/WPC I.D. No:

Site: Envirte Consoration

Date of completion: 7.2/. %

Monitoring Point Location (relative to site features): SF Corner. Adjacant to Water Treatment Plant

Drilling Contractor: Glenn On Ming Inc. Supervising Engineer/Geologist:

Well Construction Method:

Hollow Stein Auger; Air Hammer - 4" Casing

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground surface elevation (MSL):

33214

Top of casing elevation (MSL):

333.26 4

Length of Screen: 15.04

Length of riser pipe: 12.0 ft.

Screen type: 5% Hed PVC

Filter fabric: \_\_\_\_ Yes 🗸 No

Well inside diameter:

2.0 in

Well casing material and schedule:

SCH 40 Type I PVC. Hethod of well development:

Locking vor threaded cap.

Well depth below ground surface: 320

Refusal: Yes \_\_\_ No

Screened interval:

32.0 ft. to 17.0 fa

Screen Slot size: .0/0

Screen packing: \_\_\_ Yes \_ No

Thickness: N/A If yes,

Material: N/A

grain size: N/A

Impermeable Backfill: Bentonike Slurr

Estimated K screened interval: 10-3c.

Time spent developing: 2 hrs. 30 min.

Impermeable backfill: Concrete Cla

Bedrock wells
Casing length: N/A
Water-bearing rock unit: N/A
Water bearing sections (depths and approximate yields): NIA
Length of rock core: N/A
Diameter of core bole: N/A
Thickness and depth of impermeable backfill: N/A
O-rings seals:Yes No N/A

#### GEOLOGIC INFORMATION

Aquifer: Stratified Unife

Inferred relationship to plume: \_\_\_\_ Within \_\_\_ Outside \_\_\_ Edge

Watershed (plume discharge watercourse): Naugatuck Linker; Branch Brook

Aquifer materials (attach boring log): Sand and Grauel

Attach maps and plans required of G.1.j. and G.4.

FU	JSS	&(	)'NEII	L, IN	C.				PRO	JEC	T/LOCATIO	ON	BORING N	o. MW-	42B	
$\alpha$	SMC	SUL	TING	ENGI	NE	ER	S			Env	ririte Corp.		SHEET 1	OF		
M	AN	CHI	ESTER	<b>C</b> T (	)60	40	ľ		Thoma	asto	on, Connect	ricut	JOB. NO. <u>.</u>	91-580		
DF	ILLE	R	O. Arb Dave Ko EILL RE	waleski		TIVE	R. K	Cova	ach	-	DATE STA	ELEVATION RTED 03/30	0/93_DATE F			93
5			ETHOD	Spin C	aeir	na / E	Poller	- Dit		L			EL MEASUR			
			METHOD				TOILE	Dit		•	DATE	MS. PT.	WATER AT	HR AFTER	COMPLE	TION
HA	MM	ER W	T. <u>140</u>	lbs_ H	İΑΜ	MER	FALI	L (IN	N) <u>30</u>	- [						
<del> </del>	o =			SAMPL	E						SAM				Ι	T
	CASING	NO.	DEPTH (ft)	PEN REC.		OWS/	SOI				DESCR			USCS	FIELD TESTING	
									0-15.5': BOUL	LDER	IS. No samples	s. Penetrated wi	th cable tool rig.			
14.0	-	S-1	15.5-	24/12	12	14			SAND. F-C: so	ome	F-C subrounde	ed to subangula	ar gravel; trace		0 ppm	14.0
16.0			17.5		11	11	-					ellowish brown	<del></del>			16.0
18.0											<del></del> ,,			<del> </del>		18.0
20.0		S-2	20-22	24/12	11 32	25						ed to subangula			0 ppm	20.0
22.0					32	22			SIII, WEZITETO	4 801	mst nagmenta	m up, onve gray	·	<del> </del>		22.0
24.0								_		<u> </u>		<del></del>				24.0
26.0		\$-3	25-27	24/11	11	13	<del> </del>		SAND, F-M; tra	ace	to little F-M gr	avel; little silt; ol	ive gray.		0 ppm	26.0
28.0									<del></del>							28.0
30.0			30-32	0.1/2	28	36			SAND, VC-M; I	little	F; trace silt; li	ittle granules an	d F-M gravel;	-		30.0
32.0		S-4		24/6	43	46		-	dark yellowish	h bro	wn.			<del> </del>	0 ppm	32.0
34.0					_	_			34-35': BOULD	DER	<del></del>					34.0
36.0		\$-5	35-37	24/12	22	46		!	SAND, F-M; tra	ace	C; little F-M gr	avel; little silt; tr	ace		0 ppm	36.0
					23	15		_	decomposed s	scnie	st fragments; g	rayish brown.			<u> </u>	
38.0															ļ 	38.0
40.0		S-6	40-42	24/18	17 22	19 22		1	SAND, F; trace gravel; dark ye		•	ceous; trace F-0	Subrounded		0 ppm	40,0
PRO	POF	NOITE	IS USE	<del></del>						RE	MARKS:					
TRA	CE	0 -	TO 10%	Driv	en (	Casir	ng		0 - 15.5	FI	ELD INSTRUM	ENT= OVM 5	30B			
யா			TO 20%	<del></del>		asin	g				0° PVC Screen s					
SON			TO 35% TO 50%	<del></del>	olle	r Bit			<b>B</b>	Gro		3 to 65 ft. to 3 ft.				
		ss ellog(						-			-	Log Based on I		I .	RING NO	<del></del> -

#### PROJECT/LOCATION FUSS & O'NEILL, INC. BORING NO. MW-42B CONSULTING ENGINEERS SHEET 2 OF 2 Envirite Corp. JOB. NO. <u>91-580</u> MANCHESTER, CT 06040 Thomaston, Connecticut DRILLING CO. \_Arbor Drilling BORING LOCATION DRILLER Dave Kowaleski **GROUND ELEVATION** FUSS & O'NEILL REPRESENTATIVE R. Kovach DATE STARTED 03/30/93 DATE FINISHED 04/05/93 WATER LEVEL MEASUREMENTS DRILLING METHOD Spin Casing / Roller Bit WATER AT HR AFTER COMPLETION DATE MS. PT. SAMPLING METHOD Split Spoon HAMMER WT. 140 lbs HAMMER FALL (IN) 30 SAMPLE (FT.) CASING blows/it SAMPLE FIELD E USCS DEPTH PEN / BLOWS/ SOIL NO. DESCRIPTION REC. DENSITY 42.0 42.0 44.0 44.0 24/15 SAND, F; little M; trace to little silt; trace F gravel; micaceous; 0 ppm 45-47 22 12 46.0 46.0 16 14 dark yellowish brown. 48.0 48.0 50.0 50-52 12 20 50-51': SAND, F; little M and C; trace to little silt; trace F-M S-8 24/14 0 ppm 19 20 gravei. 52.0 51-52': SAND, F; some silt; dark yellowish brown.

	i I			1	ĺ	1		o, i , come ant, cara yeneman brown.	1	r
54.0		S-9	55-56	14/10	37 31		SAND C.F.	some F-C gravel and weathered schist fragments;	1 ppm	54.0
56.0			33-36	14,70	100 (2")		grayish bro		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	56.0
58.0							36.3-36 . C	OBBLES/BOOLDERS.	<del>                                     </del>	58.0
							58.5-59'; B	DEROCK?		
60.0				_						60.0
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PRO	POF	MOLL	S USED	BORIN	G MET	HOD	DEPTH	REMARKS:	<u> </u>	
TA(	CE	0 T	O 10%					FIELD INSTRUMENT = OVM 580B		
			O 20%					4		
MO: UND			TO 35% TO 50%					4		
		، دی 10g0او						NOTE: Geologic Log Based on Procedures  Described in ASTM Standard D 2488,	BORING N MW-42B	

FUSS & O'NEILL, INC.
CONSULTING
<b>ENGINEERS</b>

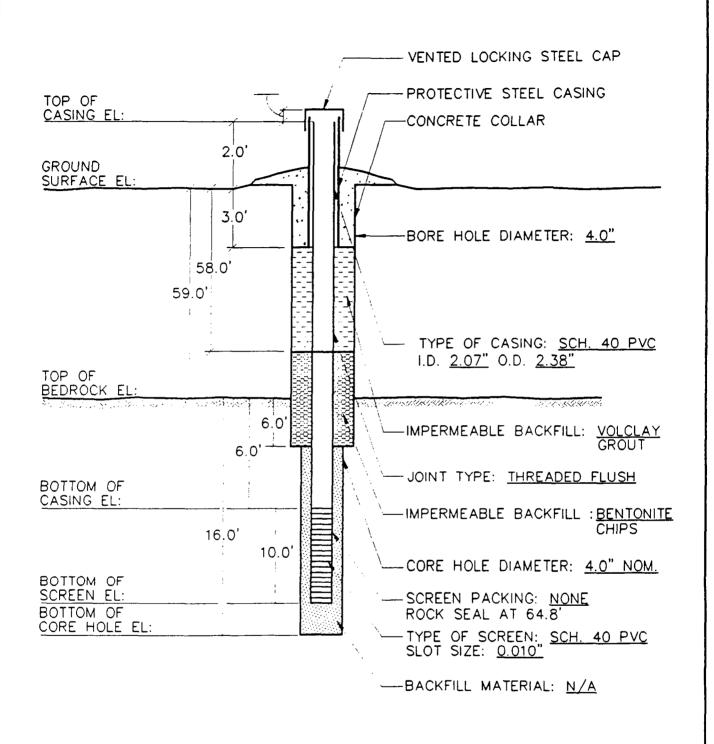
PROJECT/LOCATION	BORING NO.: MW-42B
Envirite Corp.	SHEET 1 OF 1
Thomaston, Connecticut	JOB NO.: 91-580

## DEERES ROCK QUALITY DESIGNATIONS (RQD)

RUN NO.	RUN LENGTH (fL)	RECOVERY LENGTH (ft.)	SUM LENGTH OF CORE PIECES >.328 ft. (100mm)	RQD(%) = (SUM LENGTH OF CORE PIECES > .328'/ RUN LENGTH) x100	% RECOVERY = (RECOVERY LENGTH/ RUN LENGTH)x100
1	7	7	5	76%	93%
2	8	8	8	103%	105%

ROCK CORE LOG BORING NO. MW-42B FUSS & ONEILL, INC. CONSULTING ENGINEERS OF SHEET PROJECT: Envirite Corp. 91-580 JOB NO. MANCHESTER, CT 06040 LOCATION: Thomaston, Ct 3/30/93 DRILLING CO.: **Arbor Drilling** DATE STARTED: DATE FINISHED: DRILLER: Dave Kowaleski **GROUND ELEVATION:** NQ Barrel, Roller Bit 2 **CORING METHOD:** CORE DIAMETER: FUSS & O'NEILL REPRESENTATIVE: R. Kovach COMMENTS LITHOLOGY DISCONTINUITIES CORE RUN LENGTH AND RECOVERY(%) 8 CEMENTATION
HAPDNESS
MEATHERED STATE
TEXTURE
ORIENTATION
SPACING COPE LOSS ZONE DESCRIPTION
TIGHTNESS O
SPACING A
PLANATITY E
SMOOTHNESS Y
FILLING ST MINEROLOGY CLASSECATION COLOR GRANSIZE ALTERATION FORMATIONNAME NSTRUMENTATION COPINCE/ATTE/AND SMCOTI-NESS COPING RUUD LOSS OFENTATION
ALTERATION
STANNIG
WEATHERING
STRUCTURE FROM FISH GRAPHIC 8 60 Ocassional 76% 60-61': Biotite rich band. 60-61': Very fractured, weathered, chattering. 7.0 loose, rounded joints. 61-67': Quartz plagioclase biotite gneiss. No noticable fluid 6.5 61-67': Tight to very tight, planer Light gray (N7) to very light gray (N8). Fine 0 loss. 93% to semi-planer, moderate to close grained, hard, no alterations, fresh weathering. Thin to very thin banding. 2 spacing, smooth to rough. No alterations of filling. 2 67 98% 67-74.5': Same as above. Same as above. 8.0' 74.5-75': Biotite, quartz, piagiociase 8.4' 0 gneiss/schist. Medium dark gray (N4). Fine 105% to medium grained, medium to hard, no 0 alterations, fresh weathering. Thin foliation 0 at 35 degrees to ground surface. ٥ 2 75 perfill/r-core3

### WELL NO. MW-42B





WELL CONSTRUCTION DETAILS

MW-42B

ENVIRITE CORPORATION

HARTFORD

CONNECTICUT

PROJ. NO. 91-580 DATE: JUNE 1993 SCALE: N.T.S

#### MONITOR WELL COMPLETION REPORT

**GENERAL INFORMATION** 

Town: Thomaston, Ct Site: Envirite Corporation

Monitoring Point I.D. No.: MW-42B Date of Completion: 4/5/93

DEP/WPC I.D.:

Monitoring Point Location: (relative to site features)

Drilling Contractor: Arbor Drilling Supervising Engineer/Geologist:

Robert Kovach Well Construction Method: 4" Casing, Roller Bit

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground Surface Elevation (MSL): Well Depth Below Ground Surface: 75 ft.

Refusal: Yes No: Top of Steel Casing Elevation (MSL):

Screened Interval: 65 to 75 ft. Top of PVC Casing Elevation (MSL):

Length of Screen: 10 ft.

Length of Riser Pipe: 67 ft.

Screen Slot Size: 0.010" Screen Type: Schedule 40 PVC

Filter Fabric: Yes No X Screen Packing: Yes No: X

If Yes, Thickness:

Material: Well Inside Diameter: 207"

Grain Size:

Impermeable Backfill: **Bentonite Chips** 

Impermeable Backfill:

Estimated K Screened Interval: Well Casing Material and Schedule:

Schedule 40 PVC Method of Well Development: Time Spent Developing;

Locking x or Threaded Cap **Volclay Grout** 

#### **MONITOR WELL COMPLETION REPORT (Continued)**

#### **BEDROCK WELLS**

Casing Length:

Water-Bearing Rock Unit: Gneiss

Water-Bearing Sections (Depths and Approximate Yields):

Length of Rock Cores: 7.0, 8.0 ft.

Diameter of Core Hole: 4 in.

Thickness and Depth of Impermeable Backfill: 58 to 65 ft.

O-ring Seals: Yes: x No:

#### **GEOLOGIC INFORMATION**

Aquifer: Shallow Bedrock

inferred Relationship to Plume; Within X Outside Edge

Watershed (Plume Discharge Watercourse): Branch Brook, Naugatuck River

Aquifer Materials (Attach Boring Log):

Attach Maps and Plans Required of G.I.j. and G.4.

perfill\wcompl02 page 2 of 2

		Scott Hill I Colchester, C (203)887-3	Road t 0641			PA			Fuss & O  Envirite  Thomasto	NU	RING MBEI 425 HEET			
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<i>)</i> —	S-2	5.0'-5.9'	10	25/.	<u> </u>	0.7		1	Blasted	Rock				
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254	S-5	25.0'-26.5'	14	18	20	1.1	丰	=		Fine-Coarse Sand. Some F Gravel.	Yn			
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							E	3	10.0'	set at 32.5' Screen; 24.0' Riser				
						1	#	$\exists$	1 Prot	ective Casing with Lock . Steam Cleaning				
8 -	<u></u> #	E IDENTIFICATION LIT SPOON HIN WALL TUBE NOISTURBED PISTON	Cone	b. Wt. 1 Honiem D		on 2" <u>Coh</u> 0	0.0. & <del>nha</del> C 12	E impler ensistency Very Seft		* USED RÉMARKS: 10% Water @ 16.0' o 1	Hr.			

### MONITOR WELL COMPLETION REPORT

#### GENERAL INFORMATION

Town: Thomaston CT.

Monitoring Point I.D. No.: MW 425

DEP/WPC I.D. No:

Monitoring Point Location (relative to site features): South End of Koperty; Adjacent to Water Treatment //ar Supervising Engineer/Geologist:

Drilling Contractor: Gleen Crilling, Inc.

Rick Christiana Well Construction Method:

Hollow Stem Auger; Air Hammer - 4" Casing

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground surface elevation (MSL):

338.22 ft

Top of casing elevation (FSL):

Length of Screen: 10.0 fc.

Length of riser pipe: 2446 in

Screen type: 5%#ed PVC

Filter fabric: \_\_\_ Yes \_\_ No

Well inside diameter:

2.0 in

Well casing material and schedule: SCH 40 TENEI PUC

Nethod of well development:

Centrifugal rump Locking or threaded cap

Well depth below ground surface: 224

Site: Envirote Corporation

Monday

Date of completion: 8.11.86

Refusal: \_\_\_ Yes \_ No

Screened interval:

32 ft. P.in. to 22 ft. Pin

Screen Slot size: .0/0

Screen packing: \_\_\_\_ Yes \_ No

If yes, Thickness: N/A

Material: N/A

grain size: N/A

Impermeable Backfill: Certarite Shu

Estimated K screened interval:/0-3,

Time spent developing: 15 min

Impermeable backfill: Concrete Co/

<b>n</b> - 3		1	- 3	9 -
Bed	$r \infty$	K 1	ÆŢ	18

Casing length: N/A

Water-bearing rock unit: N/A

Water bearing sections (depths and approximate yields): N/A

Length of rock core: N/A

Diameter of core hole: N/A

Thickness and depth of impermeable backfill: N/A

O-rings seals: \_\_\_\_\_Yes \_\_\_\_ No N/A

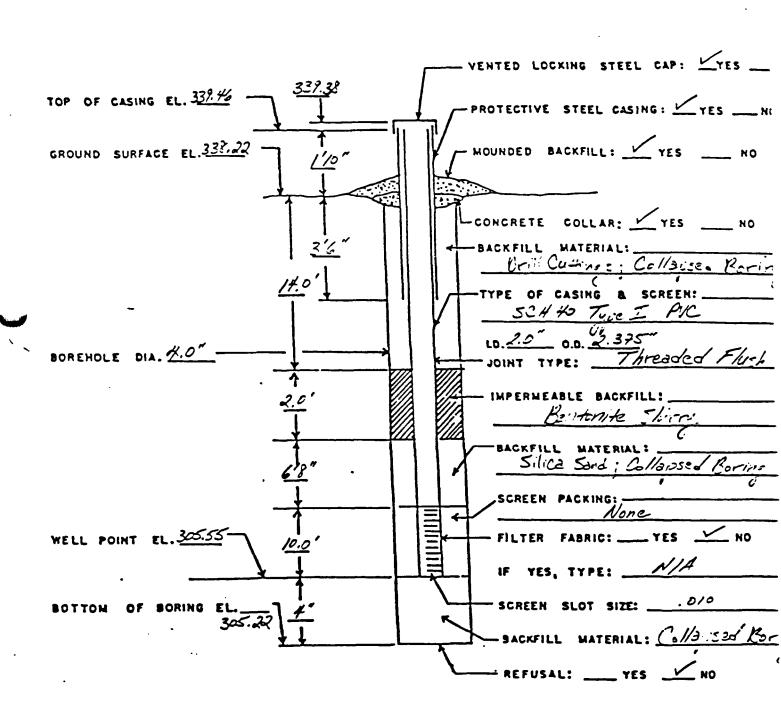
#### GEOLOGIC INFORMATION

Aquifer: Stratified On for

Inferred relationship to plume: \_\_\_\_ Within \_\_\_ Outside \_\_\_ Edge
Watershed (plume discharge watercourse): Naujatuck liver; Branch Brook
Aquifer materials (attach boring log): Sand and Gravel
Attach maps and plans required of G.1.j. and G.4.

# MONITOR WELL INSTALLATION DETAIL FOR WELL IN UNCONSOLIDATED DEPOSIT

MW 425



		Glenn Drillin Scott Hill F Colchester, C (203) 887-3	load t 0641			M	OJECT	NAME	Engri mi + a	)	SORING NUMBER 43D
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<b>₩</b> :		PEN END ROO ASH SAMPLE	30-49		Dense Dense Dense	•	-15 5t	911		60% COL.A	-

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### MONITIOR WELL COMPLETION REPORT

GENERAL INFORMATION
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Town: Thomaston, CT.

Monitoring Point I.D. No.: MW 430

DEP/WPC I.D. No:

Site: Enviring Corporation

Date of completion: 2.8.86 Friday

Monitoring Point Location (relative to site features): South End of Projecting Adjacimi to hater Treatment Plan Drilling Contractor: Glein Orilling, Inc. Supervising Engineer/Geologist:

Rick Chinshall

Well Construction Method:

Hollow Stend Finer; Fir Hammer - 4" Casing

WELL INFORMATION (ELEVATIONS TO NEARLST 0.1 FEET)

Ground surface elevation (MSL):

334.1 A.

Well depth below ground surface: (2:

Refusal: Yes / No

68.0 ft to 58.0 ft.

Screened interval:

Top of casing elevation (MSL):

Length of Screen: 10.04.

Well inside diameter:

Length of riser pipe: 60.0 ft.

Screen type: 5/. Hed PVC

Filter fabric: \_\_\_ Yes \_ No

Screen Slot size: . 0/3

Screen packing: \_\_\_\_ Yes \_ No

Thickness: N/A If yes,

Material: N/A

grain size: N/A

Well casing material and schedule:

SCH 40 TypeI N/C

Nethod of well development:

2.0 m

Locking \_\_\_ or threaded cap.

Impermeable Backfill: Bentonite Slun

Estimated K screened interval: 10-3

Time spent developing: 15 min

Impermeable backfill: Concrete Coli

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Casing length: N/A

Water-bearing rock unit: N/A

Water bearing sections (depths and approximate yields): N/A

Length of rock core: N/4

Diameter of core hole: N/A

Thickness and depth of impermeable backfill: N/A

O-rings seals: \_\_\_Yes \_\_\_ No N/A

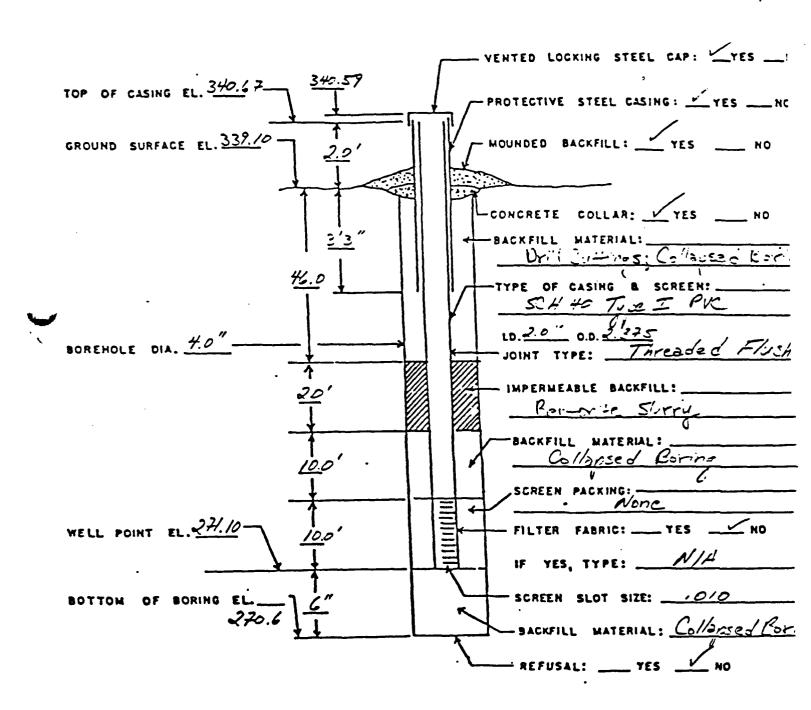
#### GEOLOGIC INFORMATION

Aquifer: Statified Insi

Inferred relationship to plume: \_\_\_ Within \_\_\_ Outside \_\_\_ Edge
Watershed (plume discharge watercourse): Naugatuck River; Branch Brook
Aquifer materials (attach boring log): Sand and Gravel
Attach maps and plans required of G.1.j. and G.4.

# MONITOR WELL INSTALLATION DETAIL FOR WELL IN UNCONSOLIDATED DEPOSIT

INW 43C



DAILLER ROY CLEEN ANGUNESS ROUNTERS ANGUNESS RELIGION AND REMARKS OF START AUGUST 8, 1986 SIZE ID. AT HAMMER WY. AIT OFFSET  SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SOUNTERS OF START OF START ANGUNESS REC. A CHARGE FIELD CLASSIFICATION AND REMARKS OF SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE S				Glenn Drillin Scott Hill F Colchester, C (203) 887-3	Road t 064			PRO	)JEÇT	NAME	Fuss & 0  Envirite  Thomasto		<u> </u>		
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Casing length: NIA

Water-bearing rock unit: N/A.

Water bearing sections (depths and approximate yields): N/A

Length of rock core: NIX

Diameter of core bole: N/A

Thickness and depth of impermeable backfill: N/A

O-rings seals: Yes \_\_\_ No N/A

#### GEOLOGIC INFORMATION

Aguifer: Stratified Onft

Inferred relationship to plume: \_\_\_\_ Within \_\_\_ Outside \_\_\_ Edge
Watershed (plume discharge watercourse): Naugafuck River; Branch Brack
Aquifer materials (attach boring log): Sand and Gravel
Attach maps and plans required of G.1.j. and G.4.

#### MONITOR WELL COMPLETION REPORT

#### GENERAL INFORMATION

Town: Transston CT.

Monitoring Point I.D. No.: May 435

DEP/WPC I.D. No:

Site: Envirine Corporation

Date of completion: 8.11.76

Monday

Monitoring Point Location (relative to site features): South End of Property;

Adjacent to Water Treatment Plant

Drilling Contractor: 6 kmi Drilling, Zirc. Supervising Engineer/Geologist:

Fick Christiana

Well Construction Method:

Hollaw Stein Huger; Air Hammer - 4"Casing

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground surface elevation (MSL): 339.28 ft.

Top of casing elevation (MSL):

Length of Screen: 10.0 ft. 340.42 ft.

Length of riser pipe: 23 4. 11 m.

screen type: Slotted PVC

Filter fabric: \_\_\_ Yes \_\_ No

Well inside diameter:

2.0 in

Well depth below ground surface: 324.

Refusal: \_\_\_ Yes \_\_ No

Screened interval:

32ft 4 in to 22 ft 4 in

Screen Slot size: ,0/0

Screen packing: \_\_\_ Yes \_\_ No

If yes, Thickness: N/A

Faterial: N/A

grain size: N/A

Impermeable Backfill: Bentonite Sture

Estimated K screened interval: / - - - - -

Time spent developing: 15 min

Impermeable backfill: Concrete Col,

Well casing material and schedule:

5CH 40 Type I PVC

Bethod of well development:

Correlated Locking \_\_\_\_\_\_ or threaded cap \_\_\_\_\_\_

# MONITOR WELL INSTALLATION DETAIL FOR WELL IN UNCONSOLIDATED DEPOSIT

MILU 435

					,
				۱	VENTED LOCKING STEEL CAP: YESP
	TOP OF CASING EL. 340.42 -	<u>340.42</u>			
	TOP OF GASING CC.	<u> </u>	ŧ	- /- I	PROTECTIVE STEEL CASING: YES NO
	GROUND SURFACE EL. 339.22 -	1	11		MOUNDED BACKFILL: YES NO
	GROUND SURFACE EL.	1'7"			MOUNDED BACKFIEL: _ 7 TES RO
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		1 1 4	1	FIL	CONCRETE COLLAR: YES NO
		3'9"		11 1	-BACKFILL MATERIAL:
			$\parallel$	IT	ne julias
		15.0'	11		TYPE OF CASING & SCREEN:
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_	, , , , , , , , , , , , , , , , , , , ,				LD. 2.5" O.D. 2.375"  JOINT TYPE: Threaded Flush
•	BOREHOLE DIA. 4.5"	-			- JOINT TYPE: Threaded Flush
		1			- IMPERMEABLE BACKFILL:
		2.0			Reitente Sturri
	•	_			-BACKFILL MATERIAL:
		5"4" ·	-	1 /	Collased Paris
		57		17	
		<del>- ‡</del>	-	탈감	SCREEN PACKING:
	WELL POINT EL.306.95	10.0		3-1	- FILTER FABRIC: YES NO
		1	1 1	<b>를</b> 1	IF YES, TYPE: NIA
			<del>                                     </del>	7-1	IF YES, TYPE:
	BOTTOM OF BORING EL	٦ <u>٠</u> ٤″		<u> </u>	SCREEN SLOT SIZE:
	34.28	11	<u></u>		SACKFILL MATERIAL: Collaised Bor,
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				<u> </u>	REFUSAL: YES NO

C = COMED W = WARNED
SE = PLIT SPOON
UP = UNDISTURBLE PISTON

W = WANNED

-8-10 LODGE 10-30 MED. COMF.

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MISSING PROPERTY

J. K.

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RA	RACE 0 TO 10% Soun 4" dia. casi					<del></del>	0-74'			10' s								
	ITTLE 10 TO 20% SOME 20 TO 35%					97.5' rise												
AND		35 TO		Rotary E	it	74-76' Depth @ 8'												
	G			Bedrock	Core	Sand to 75'  8												
	밝	(O)								Grout	to 2 r ∩-2	+ ·= /·	-			BORING NO	).	
	<b>FU</b>					Cement 0-2									M	₩-44B		

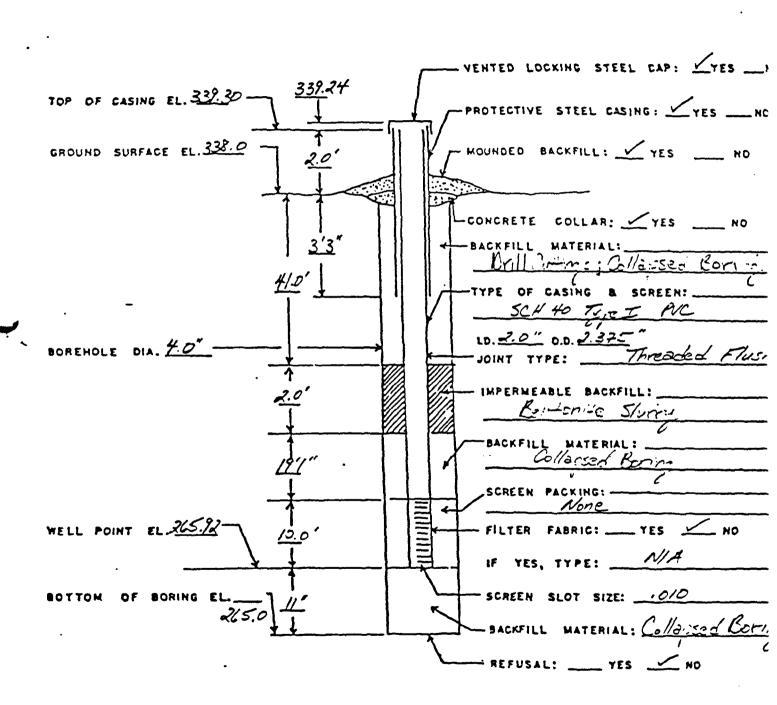
#### BORING Glenn Drilling Inc. Fuss & O'Neill CLIENT\_\_\_ NUMBER Scott Hill Road Envirite 44D PROJECT NAME \_\_\_ Colchester, Ct 06415 (203)887 - 3621SHEET Thomaston, CT LOCATION \_ ARCHITECT ENGINEER DRILLER Roy Glenn FILE NO. \_ Care Barrel Sampler INSPECTOR Rick SURFACE ELEV. SS HW TYPE 1%" 4" SIZE I.D. DATE START July 31, 1986 LINE & STATION\_ 140# HAMMER WT. 30" DATE FINISH HAMMER FALL OFFSET\_ SAMPLE COL. STRATA BLOWS PER 6" FIELD CLASSIFICATION AND REMARKS DEPTH RANGE ON SAMPLER CHANGE NO. REC. 0-6 6-12 12-18 Boulder FILL S-1 4.0'-5.5' 52 40 0.8 10 13.0' Brown Fine Sand. Trace Mica and 14.0'-15.5' 8 9 1.5 154 Silt. 20 25 12 15 29.0'-30.5' 18 0.9 Brown Fine-Coarse Sand. Little Fine-S-3 30 -Medium Gravel. 354 17 35.0'-36.5' 27 29 9 39.0'-40.5' PENETRATION RESISTANCE 140 b. Wt. falling 30" on 2" O.D. Sampler SAMPLE IDENTIFICATION PROPORTIONS USED REMARKS SPLIT SPOON Concuentes Dentity Concline Consistency 0 to 10% THIN WALL TUBE Very Sen Sen M/Stiff Stiff V-Stiff Herg 0-4 5-9 Yary Lease 10 to 20% UNDISTURBED PISTON 10-29 30-49 50 -Mes. Dense 20 to 35% OPEN END ROD WASH SAMPLE 36 to 60% COL. A \_ AUGER SAMPLE

		Scott Hill : Colchester, C	Road t 064			-	ROJECT	NAME _	Fuss & O'l		BORING NUMBER 44D SHEET		
		(203) 887-	2021	ARCH	TECT		OCATIO	<u> </u>	Thomaston	. Ст Т	- ma. 2		
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		Rick Cristia	ns	TYPE	_	HW 4"	<b>-</b> -	Someter SS 1½"	Core Sarrel	SURFACE ELEV.			
				1	ER WT.			140# 30"		LINE & STATION	<del></del>		
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			1					]	B/4 Hr. S	Steam Cleaning			
\$ TUOW	- SPL - THI - UN - OPI - WA	IDENTIFICATION  IT SPOON IN WALL TUBE DISTURBED PISTON EN END ROD SH SAMPLE GER SAMPLE		b. Wt. fa aniess De Very Mee.	RATION   ding 30"   insity Laces Laces Donse Donse Donse	500 20 C	D. Same	Seft	PROPORTIONS UNITED TO 10 10 10 10 10 10 10 10 10 10 10 10 10	Water @ 16.0	' O Hr.		

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# MONITOR WELL INSTALLATION DETAIL. FOR WELL IN UNCONSOLIDATED DEPOSIT

MW 440



#### MONITOR WELL COMPLETION REPOR

GENERAL INFORMAT
------------------

Town: Thomaston, CT

Monitoring Point I.D. No.: MW 44 1

DEP/WPC I.D. No:

Site: Envirite Con oration

Date of completion: 2.5.66

Monitoring Point Location (relative to site features): SW Corner; Adjacon to Branch Brack

Drilling Contractor: Glein Drilling, Inc. Supervising Engineer/Geologist:

Well Construction Method:

Holisw Stem Auger; Air Hammer - 4" Casing

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground surface elevation (MSL):

332.0 fz

Well depth below ground surface: 724

Refusal: Yes No

72 ft 1 in to 62ft 1 in

Top of casing elevation (MSL):

339.30 ft. Length of Screen: 10.0f4

Length of riser pipe: 644 /in

Screen type: Slotted PVC

Well inside diameter:

Filter fabric: \_\_\_\_ Yes \_\_ No

Screen Slot size: .0/0

Screened interval:

Screen packing: \_\_\_ Yes \_\_ No

If yes, Thickness: N/A

Material: N/A

grain size: N/A

Well casing material and schedule: SCN 40 Type I PC

Hethod of well developmen

Locking or threaded cap

2.0 in

Impermeable Backfill: Bentonite Slure

Estimated K screened interval: 10-3cm

Time spent developing: 30 min

Impermeable backfill: Concrete Collain

### Bedrock wells

Casing length: N/A

Water-bearing rock unit: N/A

Water bearing sections (depths and approximate yields): N/A

Length of rock core: N/A

Diameter of core bole: N/H

Thickness and depth of impermeable backfill: N/A

O-rings seals: \_\_\_Yes \_\_\_ No N/A

#### GEOLOGIC INFORMATION

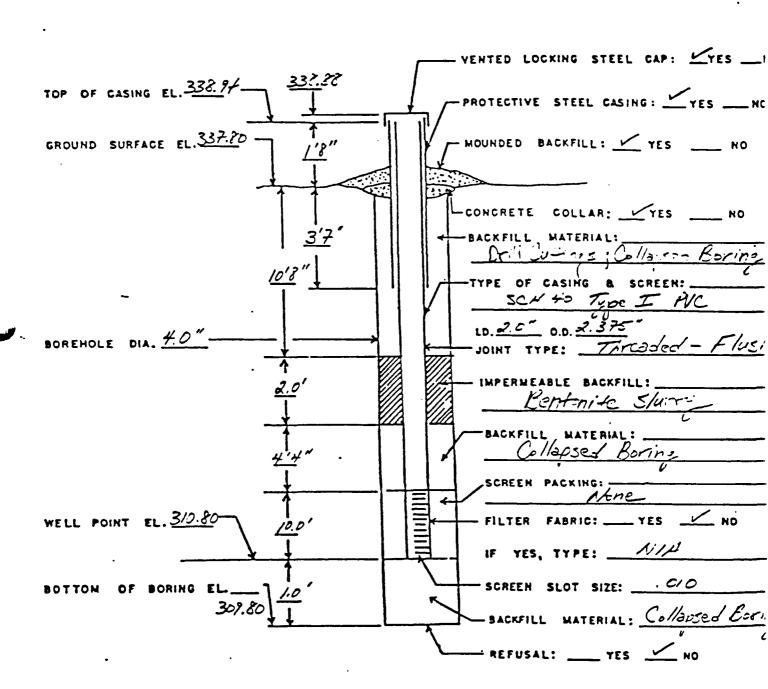
Aguifer: Stratified Crife

Inferred relationship to plume: \_\_\_ Within \_\_\_ Outside \_\_\_ Edge
Watershed (plume discharge watercourse): Naugatuck River; Branch Brook
Aquifer materials (attach boring log): Sand and Grave!
Attach maps and plans required of G.1.j. and G.4.

Fuss & O'Neill BORING Glenn Drilling Inc. CLIENT\_\_ NUMBER Scott Hill Road Envirite PROJECT NAME \_ 445 Colchester, Ct 06415 (203) 887-3621 Thomaston, CT SHEET LOCATION \_ No. 1 ARCHITECT ENGINEER DRILLER\_ Roy Glenn FILE NO. Coung Core Barrel Rick Christians INSPECTOR SURFACE ELEV. \_\_\_ HW TYPE 4" DATE START August 5, 1986 SIZE I.D. LINE & STATION \_\_ Air HAMMER WT. DATE FINISH August 5, 1986 HAMMER FALL OFFSET\_ SAMPLE COL. STRATA BLOWS PER 6" FIELD CLASSIFICATION AND REMARKS NO. DEPTH RANGE ON SAMPLER A CHANGE REC. 6-12 12-18 As per 44D 0-28.0' Drove Casing; No Samples Installed 2" PVC Monitor Well Bottom set at 28.0' 10.0' Screen; 20.0' Riser 1 Protective Casing 1/2 Hr. Steam Cleaning SAMPLE IDENTIFICATION PENETRATION RESISTANCE PROPORTIONS USED REMARKS: 140 b. Wt. falling 30" on 2" O.D. Sampler SPLIT SPOON 0 to 10% Caneure Consulancy Concuent Density THIN WALL TUBE 0-4 5-9 10-29 30-49 Very Seft 0-2 Very 50 3-4 Seft 5-8 M/Stiff 0-15 Stiff 16-30 V-61iff 31 - Morg 10 to 20% UNDISTURBED PISTON Leone Med. Denie Denie 0 20 to 35 to OPEN END ROD WASH SAMPLE 36 to 60% COL. A \_\_ Very Dense AUGER SAMPLE

# MONITOR WELL INSTALLATION DETAIL FOR WELL IN UNCONSOLIDATED DEPOSIT

## MW 445



#### MONITOR WELL COMPLETION REPORT

Town: Thomaston, CT

Monitoring Point I.D. No.: 17W 445

DEP/WPC I.D. No:

Site: Envirite Corporation

Date of completion: 8.6.86

Wednesday

Monitoring Point Location (relative to site features): Sw Corner; Adjacout to
Branch Brook

Drilling Contractor: Chem Unilling, Inc.

Supervising Engineer/Geologist:

Well Construction Method:

Hollow Stem Auger; Air Hammer - 4" Casing

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground surface elevation (MSL):

337.842.

Top of casing elevation (FSL):

Length of Screen: 10.0 ft. 338.94 ft.

Length of riser pipe: 19.0 G

Screen type: 5/04ed PVC

Filter fabric: \_\_\_\_ Yes \_\_ No

Well inside diameter:

2.0 in

Well depth below ground surface: 270

Refusal: Yes / No

Screened interval:

27.0 ft to 12.0 ft

Screen Slot size: ,0/0

Screen packing: \_\_\_ Yes \_\_ No

If yes, Thickness: N/A

Material: N/A

grain size: N/A

Impermeable Backfill: Bentonite Slurr

Estimated K screened interval: 10-3cm

Time spent developing: 30 min

Impermeable backfill: Concrete Colla

Well casing material and schedule: SCH40 Type I PVC

Hethod of well development:

Locking or threaded cap \_\_\_\_

500	rock	1.55	3-
	I OU'N	· **	ıв

Casing length: NIA

Water-bearing rock unit: N/A

Water bearing sections (depths and approximate yields): NIA

Length of rock core: N/A

Diameter of core bole: NIA

Thickness and depth of impermeable backfill: N/A

O-rings seals: Yes \_\_\_ No N/A

#### GEOLOGIC INFORMATION

Aquifer: Stratified Drift

Inferred relationship to plume: \_\_\_\_ Within \_\_\_ Outside \_\_\_ Edge

Watershed (plume discharge watercourse): Naugatuck Ruct; Branch Brok

Aquifer materials (attach boring log): Sand and Gravel

Attach maps and plans required of G.1.j. and G.4.

Bedi	<u>cock</u>	We]	18
	-	_	

Casing length: N/H

Water-bearing rock unit: N/#

Water bearing sections (depths and approximate yields): N/A

Length of rock core: NIA

Diameter of core bole: N/A

Thickness and depth of impermeable backfill: N/A

O-rings seals: Yes \_\_\_ No N/A

#### GEOLOGIC INFORMATION

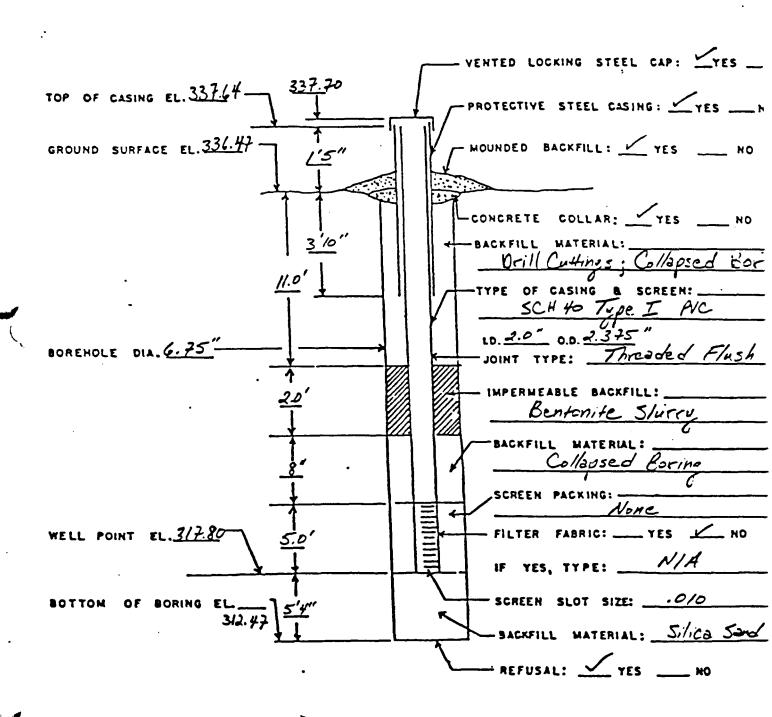
Aguifer: Stratified Wiff

Inferred relationship to plume: \_\_\_\_ Within \_\_\_ Outside \_\_\_ Edge
Watershed (plume discharge watercourse): Nougatuck Ever; Branch Erock
Aquifer materials (attach boring log): Sand and Gravel
Attach maps and plans required of G.1.j. and G.4.

1	•	Glenn Drill Scott Hill		c.		1			Fuss & O		BORING NUMBER
1		Colchester, (		15		1		_		85-329	50S
		(203) 887-	3621			L	CATIO	<u> </u>	Thomasto	on, CT	SHEET No. 1
DRIL	LER	Lou Rogers		ENGIN	– • .					FILE NO	1
i i		Dave Montany	,			Com	,	Sumpler	Core Barrel		
1	_		i	TYPE		<u>HSA</u> 3%"		<u>ss</u> 1%"		SURFACE ELEV.	
DATE	E START	July 26, 198	<del></del>	SIZE I	.D. IER WT.			140#	<del></del>	LINE & STATION_	
DATE	E FINISH	July 30, 198	36	HAMA	IER FALI			30"		OFFSET	
3		3	AMPLE				COL.				
EPTH	NO.	DEPTH RANGE		SAMP		REC.		STRATA		CLASSIFICATION AND	REMARKS .
6			0-6		12-18						
	5-1	0-1.5'	2	4	6	0.7	<b> </b>	Į.	Topsoil		
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											•
15	S-4	15.0'-16.5'	23_	28	43	1.2		-		Carse Sand. Trac	e Silt. Fine
ł				-		+	<del> </del>	-	Coarse	Gravel.	
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20	C-1	19.0 -24.0					5	7	Rock		
	S-5	20.0'-20.2	100/	2	+	+	7	-{	Fine-Me	edium Sand and B	roken Rock.
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1							8	24.0	•		
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1	-					+-	+-	-		led PVC Monitor	Well
								<u> </u>		set at 18.8' ective Casing	
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<b>`</b>	BAMPLE	E IDENTIFICATION		PENE	TRATIO	N REST	TANCE		PROPORTION	S USED REMARKS:	Water @ 15
1 -	_	LIT SPOON	Ceneu	-	Sentity	Con	ente Ce	newtoney	_	10% Hale A:	_
. اِن	U	NOISTURBED PISTO			y Loose Loose		<b>)-4</b>	NY SOR	Mette 10 to	9 20% B:	19.0'
0	_	PEN END ROD ACH SAMPLF	30-49		I. Dones Dones		-15 50			SOL C:	19.0'

# MONITOR WELL INSTALLATION DETAIL FOR WELL IN UNCONSOLIDATED DEPOSIT

### MW 505



## MONITOR WELL COMPLETION REPORT GENERAL INFORMATION Site: Envirite Congeration Town: Thomaston CT. Monitoring Point I.D. No.: MW 50 5 Date of completion: 6.30.86 DEP/WPC I.D. No: Monitoring Point Location (relative to site features): Fast Side of Projectly NE Corner Adjacent to Maintent Supervising Engineer/Geologist: Drilling Contractor: Glenn Crilling, Inc. Well Construction Method: Hollow Stem Auger; his Hammer- 4" Casing WEIL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET) Ground surface elevation (MSL): 336.47 fs Screened interval: Top of casing elevation (MSL): 337.64 4. Length of Screen: 5.0 ff Length of riser pipe: 15.0 fc. Screen type: 510Hed PVC Filter fabric: \_\_\_\_ Yes \_\_\_ No

2.0 in

Well inside diameter:

Well casing material and schedule: · SCH 40 Type I PVC Nethod of well development: Centrofusal Locking or threaded cap

Well depth below ground surface: 1844

Refusal: Yes \_\_\_ No

1848 in to 1348 in

Screen Slot size: . 0/0

Screen packing: \_\_\_ Yes \_\_ No

Thickness: N/A If yes,

Faterial: N/A

grain size: N/A

Impermeable Backfill: Bortonite Slu

Estimated K screened interval: 10-3c

Time spent developing: / hr.

Impermeable backfill: Concrete Co

#### PROJECT/LOCATION FUSS & O'NEILL, INC. BORING NO. MW-51B OF 3 CONSULTING ENGINEERS SHEET 1 Envirite Corp. JOB. NO. 91-580 MANCHESTER, CT 06040 Thomaston, Connecticut BORING LOCATION 5' South of MW-51D DRILLING CO. Arbor Drilling DRILLER Dave Kowaleski **GROUND ELEVATION** DATE STARTED 02/11/93 DATE FINISHED 02/18/93 FUSS & O'NEILL REPRESENTATIVE R. Kovach WATER LEVEL MEASUREMENTS DRILLING METHOD Hollow Stem Auger/Spin Casing DATE MS. PT. WATER AT | HR AFTER COMPLETION SAMPLING METHOD Split Spoon HAMMER WT. 140 lbs HAMMER FALL (IN) 30 SAMPLE SAMPLE FIELD Ē USCS DEPTH PEN . BLOWS/ SOIL DESCRIPTION TESTING NO. REC. DENSITY (ft) 6. 0.0 0.0 0-0.2': ASPHALT. 1.0 1-3 1.0 SAND, F; trace C; little to some silt; trace gravel and cobbles; 8 S-1 24/22 0 ppm 52 moderate yellowish brown to dark yellowish brown. 2.0 2.0 3.0 3.0 3': Large cobble. 4.0 4.0 5.0 5-6 5.0 5-5.3': SILT; little F sand; trace M and C sand; trace granules; 22 S-2 11/11 0 ppm 80 (5") gravish brown. 6.0 6.0 5.3-5.5': Same as above, except trace F gravel and dark yellowish brown. 7.0 7.0 5.5-8': SAND, F; trace M and C; trace granules; little F-C gravel; little silt; moderate brown (5YR 4/4) to moderate yellowish 8.0 8.0 brown. 6': BOULDER. 9.0 9.0 10.0 10-12 10.0 Boulders and cobbles. No sample taken. 11.0 11.0 12.0 12.0 13.0 13.0 14.0 14.0 PROPORTIONS USED BORING METHOD DEPTH **REMARKS:** 0 - 33.5Spin Casing 0 TO 10% TRACE FIELD INSTRUMENT= OVM Model 580b **NQ Core Barrel** 33.5 - 48.5 LITTLE 10 TO 20% 0.010" PVC Screen set 38.5 to 48.5 ft.

SOME 20 TO 35% 35 TO 50% AND perfil/wellog04

Rock Seal at 38 ft. Bentonite Chips 30.5 to 38 ft.

Bentonite Grout 0 to 30.5 ft.

NOTE: Geologic Log Based on Procedures Described in ASTM Standard D 2488. BORING NO. MW-51B

### FUSS & O'NEILL, INC. CONSULTING ENGINEERS MANCHESTER, CT 06040

#### PROJECT/LOCATION

Envirite Corp.

BORING NO. MW-51B SHEET 2 OF 3 JOB. NO. 91-580

Thomaston, Connecticut

DRILLING CO. Arbor DRIlling	BORING LOCATION 5' South of MW-51D
DRILLER Dave Kowaleski	GROUND ELEVATION
FUSS & O'NEILL REPRESENTATIVE R. Kovach	DATE STARTED 02/11/93 DATE FINISHED 02/18/93

	,	WATER LE	VEL MEASU	REMENTS
DRILLING METHOD Hollow Stem Auger/Spin Casing	DATE	MS. PT.	WATER AT	HR AFTER COMPLETION
SAMPLING METHOD Split Spoon			I	
HAMMER WT. 140 lb HAMMER FALL (IN) 30				

- 6	<b>©</b> €	SAMPLE						SAMPLE	] ]		_
E	CASING	NO.	DEPTH (ft)	PEN REC.		)W\$/	SOIL DENSITY	DESCRIPTION USC	uscs	FIELD TESTING	
15.0		<b>\$</b> ∙3	15-17	24/6	3 19	2 39		SILT; little F sand; trace M and C sand; little F-C subangular gravel; trace extensively weathered schist fragment; moderate		0 ppm	15.
16.0								brown (5YR 4/4) to dark yellowish brown.			16.
7.0						_		17-19': Cobbles and boulders.			17.
8.0							İ				18.
19.0											19.
0.0		S-4	20-22	24/7	8 42	43 18		SAND, F; trace M and C; little silt; trace to little gravel and cobbles; dark yellowish orange.		0 ppm	21
1.0				-							21.
22.0			·								22.
3.0											23.
24.0							<u> </u>				24.
5.0		S-5	25-27	24/10	26 29	34 32		SAND, M-VC; trace F; trace to little silt; trace subangular to subrounded F-M gravel; trace cobbles; moderate reddish		0 ppm	25.
6.0								brown.			26.
7.0											27.
8.0											28.
9.0											29.

	PROPOF	TTIONS USED	BORING METHOD	DEPTH	REMARKS:	
	TRACE	0 TO 10%			FIELD INSTRUMENT= OVM Model 580B	
	ITTLE	10 TO 20%				
	SOME	20 TO 35%				
•	AND	35 TO 50%				_
					NOTE: Geologic Log Based on Procedures	
	perfill/we	ellog04			Described in ASTM Standard D 2488.	

BORING NO. MW-51B

## FUSS & O'NEILL, INC. **CONSULTING ENGINEERS** MANCHESTER, CT 06040

### PROJECT/LOCATION

Envirite Corp.

BORING NO. MW-51B SHEET 3 OF 3

NO.

JOB. NO. <u>91-580</u>

Thomaston, Connecticut

BORING LOCATION 5' South of MW-51D

DRILLING CO. Arbor Drilling DRILLER Dave Kolaweski **GROUND ELEVATION** FUSS & O'NEILL REPRESENTATIVE R. Kovach DATE STARTED 02/11/93 DATE FINISHED 02/18/93

WATER LEVEL MEASUREMENTS DRILLING METHOD Hollow Stem Auger/Spin Casing WATER AT HR AFTER COMPLETION DATE MS. PT. SAMPLING METHOD Split Spoon HAMMER WT. 140 lbs HAMMER FALL (IN) 30

_	0 =	SAMPLE						CAMPLE			[
ET.	CASIN	NO.	DEPTH (ft)	PEN REC.		)WS/	SOIL DENSITY	SAMPLE DESCRIPTION	uscs	FIELD TESTING	E E
30.0		S-6	30-32	24/10	9 15	22 29		30-31.5": Same as above. 31.5-32": Sand, F-M, and to some silt; little to some weathered		0 ppm	30.0
31.0								rock fragments; dark yellowish brown.		_	31.0
32.0									- <del>-</del>		32.0
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PRO	POF	TTON	S USED	BORIN	IG N	ETH	1OD	DEPTH REMARKS			

	)	]		<b>]</b>			
PROPO	RTIONS USED	BORING MI	ETHOD	DEPTH	REMARKS:		
TRACE	0 TO 10%				FIELD INSTRUMENT = OVM Model 5808		
UTTLE	10 TO 20%						
SOME	20 TO 35%						
AND	35 TO 50%						
					NOTE: Geologic Log Based on Procedures	1	RING NO
perfill\w	eliog04				Described in ASTM Standard D 2488.	l N	IW-51B

FUSS & O'NEILL, INC. CONSULTING ENGINEERS

PROJECT/LOCATION	BORING NO.: MW-51B
Envirite Corp.	SHEET 1 OF 1
Thomaston, Connecticut	JOB NO.: 91-580

### DEERES ROCK QUALITY DESIGNATIONS

RUN NO.	RUN LENGTH (FT.)	RECOVERY LENGTH (FT.)	SUM LENGTH OF CORE PIECES >.328 ft. (100mm)	RQD(%) SUM LENGTH OF CORE 100 x PIECES > .328'/ RUN LENGTH	% RECOVERY RECOVERY LENGTH/ 100 x RUN LENGTH
1	7	6.8	6.7	96%	97%
2	8	8	7.6	95%	100%
	_				
Derfil	Nradimetr				
penii	<b>Nrqdlmstr</b>		_		

FUSS & ONEILL, INC. ROCK CORE LOG CONSULTING ENGINEERS PROJECT: Envirite Corp. MANCHESTER, CT 06040 LOCATION: Thmoaston, Ct

BORING NO. MW-51B OF SHEET

1

91-580 JOB NO.

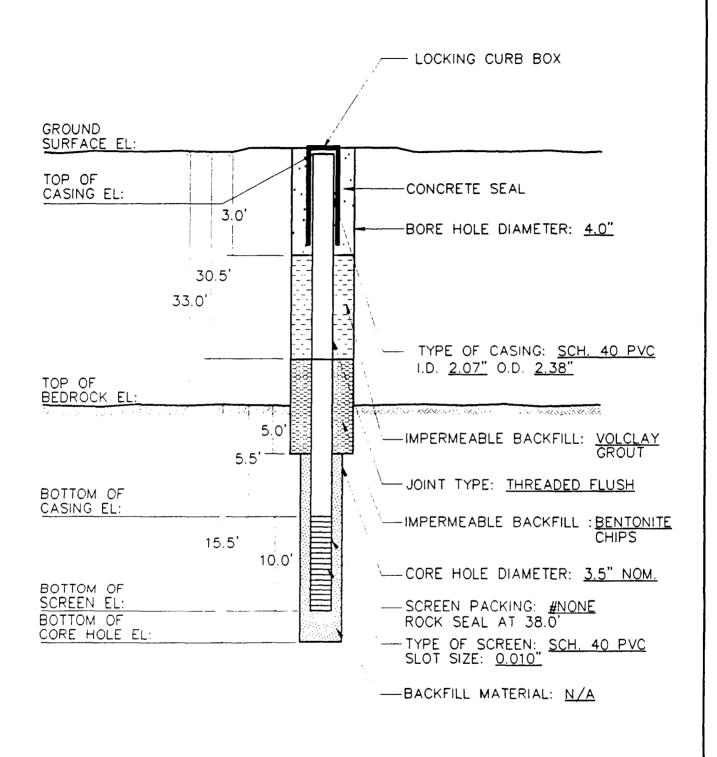
**Arbor Drilling** 2/18/93 DATE FINISHED: 2/18/93 DRILLING CO.: DATE STARTED:

DRILLER: David Kowaleski **GROUND ELEVATION:** 

CORING METHOD: NQ Core Barrel/Roller Cone 3 7/8\* CORE DIAMETER:

FL	SS & O'NEILL REPRES	ENTATIVE	:					
	COMMENTS			_	DISC	CONTINUMES	LITHOLOGY	
ОЕРТН	TESS NSTRUMENTATION COPINGRATE AND SMOOTH NESS COPINGRUD LOSS	CORE RUN LENGTH AND RECOVERY(%)	COPE LOSS ZONE	ROD	FROMES FERROT	DESCRIPTION TIGHTNESS OFFENTATION SPACING ALTERATION PLANATTY STANNIG SUCCIONESS WEATHERING FILING STRUCTURE	MINEROLOGY CEMENTATION CLASSFICATION HAPDNESS COLOR WEATHEREDISTATE GRAIN SIZE TEXTURE ALTERATION OFFENTATION FORMATIONNAME SPACING	CHAPITIC LOG
31.5	1.07 ft./min. Smooth coring Little chatter Moderate to low fluid loss	7' 96%	0.5	100 %	32.1 33.0 33.7 34.4 35.9 37.1	Fractures at 32.1, 33.0, 33.7, 34.4, 35.9, and 37.1 feet. Horizontal, very tight, nonplanar, rough. No filling or staining.	Granitic gneiss with poorly developed bands of biotite, grayish white, fine to coarse. Fresh with no weathering. No staining or filling in fractures.	
38.5	Core rate 1.25 ft./min. Smooth coring Moderate to low fluid loss	8' 100%	0.0		39.9 41.6 43.1 43.2 45.5 45.7	Horizontal to less than 20 degree tight to very tight, rough, weathered fractures at 43.1 and 43.2 feet. No filling. Horizontal fracture at 45.7 feet to bottom.	Same as above.	
16.5					1			
	perfill/r-core3							_

### WELL NO. MW-51B





WELL CONSTRUCTION DETAILS

MW-51B

ENVIRITE CORPORATION

HARTFORD

CONNECTICUT

PROJ. NO. 91-580 DATE: JUNE 1993 SCALE: N.T.S

#### MONITOR WELL COMPLETION REPORT

GENERAL INFORMATION

Town: Thomaston, Ct Site: Envirite Corporation

Monitoring Point I.D. No.: MW-51B Date of Completion: 2/18/93

**DEP/WPC I.D.:** 

Monitoring Point Location: (relative to site features)

Drilling Contractor: Arbor Drilling Supervising Engineer/Geologist:

Well Construction Method: 4" Casing, Roller Bit

John Brogden

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground Surface Elevation (MSL): Well Depth Below Ground Surface: 48.5 ft.

Top of Steel Casing Elevation (MSL): Refusal: Yes No:

Top of PVC Casing Elevation (MSL): Screened Interval: 38.5 to 48.5 ft.

Length of Screen:

Length of Riser Pipe: 38 ft.

Screen Type: Schedule 40 PVC Screen Slot Size: 0.010

Filter Fabric: Yes No X Screen Packing: Yes No: X

If Yes, Thickness:

Well Inside Diameter: 207 Material:

Grain Size:

Impermeable Backfill: Bentonite Chips

Well Casing Material and Schedule: Estimated K Screened Interval:

Schedule 40 PVC

Method of Well Development: Time Spent Developing;

Locking X or Threaded Cap Impermeable Backfill:

**Volclay Grout** 

perfill\wcompl02

page 1 of 2

#### MONITOR WELL COMPLETION REPORT (Continued)

#### **BEDROCK WELLS**

Casing Length:

Water-Bearing Rock Unit: Gneiss

Water-Bearing Sections (Depths and Approximate Yields):

Length of Rock Cores: 7.0, 8.0 ft.

Diameter of Core Hole: 4 in.

Thickness and Depth of Impermeable Backfill: 30.5 to 38 ft.

O-ring Seals: Yes: X No:

#### **GEOLOGIC INFORMATION**

Aquifer: Shallow Bedrock

Inferred Relationship to Plume; Within X Outside Edge

Watershed (Plume Discharge Watercourse): Branch Brook

Aquifer Materials (Attach Boring Log):

Attach Maps and Plans Required of G.I.j. and G.4.

perfill\wcompl02 page 2 of 2

Fuss & O'Neill BORING Glenn Drilling Inc. CLIENT\_ NUMBER Scott Hill Road Envirite PROJECT NAME . 510 Colchester, Ct 06415 (203)887 - 3621SMEET Thomaston, CT LOCATION \_\_ No. 1 ARCHITECT ٠ ـــ Roy Glenn ENGINEER DRILLER FILE NO. Cours Sampler Care Barrel Rick INSPECTOR SURFACE ELEV. \_\_ HW SS TYPE 4" 1%" DATE START July 29, 1986 SIZE I.O. LINE & STATION \_\_ Air 140# HAMMER WT. DATE FINISH JULY 30, 1986 30" HAMMER FALL OFFSET\_ SAMPLE COL. STRATA BLOWS PER 6" FIELD CLASSIFICATION AND REMARKS ... CHANGE NO. DEPTH RANGE ON SAMPLER REC. 0-6 6-12 12-18 Sama as 51 A 10'T 9.5'-10.1' 50/.1 0.2 Brown Fine-Coarse Sand, Gravel and Boulders 14.0'-15.5' 17 Fractured Gneiss and Schist Boulders 15'-0.7 19.0'-21.5' 30 Gray Fine-Medium Sand with Rock ko∙-Fragments. S-4 24.0'-25.5' 14 30 42 1.1 Brown Fine-Coarse Sand and Gravel. 25'-Little Silt. 29.0'-30.5' **S-5** 14 26 30 ∞.5 BO'-32.0' Gneiss and Schist Rock. 34.0' End of Boring: 34.0' Installed PVC Monitor Well Bottom set at 28.5' 10.0' Screen; 18.5' Riser B/4 Hr. Steam Cleaning 1 Curb Box PENETRATION RESISTANCE SAMPLE IDENTIFICATION PROPORTIONS USED REMARKS 140 b. Wt. felling 30" on 2" O.D. Sampler SPLIT SPOON Conceive Consistency Concuentest Dentity THIN WALL TUBE Very Sen 11 Hethe 10 to 20%

Soft M/Suff

9-15 Suff

10me 20 to 35%

36 to 60%

COL. A

UNDISTURBED PISTON

OPEN END ROD

WASH SAMPLE

0

10-29

### MONITOR WELL COMPLETION REPORT

#### GENERAL INFORMATION

Town: Thorneston, CT.

Monitoring Point I.D. No.: Mw 510

DEP/WPC I.D. No:

Site: Envinte Corporation

Date of completion: 7.30.86

Wednesday

Monitoring Point Location (relative to site features): Center of Property; Behin Plant - Conter of Building Drilling Contractor: Glenn Orilling, Inc. Supervising Engineer/Geologist:

Well Construction Method:

Hollow Stur Assers - Air Hammer - 4º Casing

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground surface elevation (MSL):

Well depth below ground surface: 286

Rick Christiana

Refusal: \_\_\_ Yes \_\_ No

28 ft 3 in to 18 ft 3 in

Screened interval:

Top of casing elevation (MSL): N/A

Length of Screen: 10.0 ft

Length of riser pipe: 18ft 3 in

Screen type: 5/046d PVC

Filter fabric: \_\_\_ Yes \_\_ No

Screen Slot size: .0/0

Screen packing: Yes \_\_\_ No

Thickness: /2 ft 3" If yes,

Material: Silica Sand

grain size: #/8

Impermeable Backfill: Bonfonite Sluri

Estimated K screened interval: 10-3c

Time spent developing: /hr /5 min

Impermeable backfill: Curb Box

Well inside diameter:

2.0 in

Well casing material and schedule: SCH40 Type I NC

Nethod of well development:

Tenenfugal Rump Locking or threaded cap.

Bedr	OCK.	we]]	8

Casing length: N/A

Water-bearing rock unit: NIA

Water bearing sections (depths and approximate yields): N/A

Length of rock core: N/A

Diameter of core hole: N/A

Thickness and depth of impermeable backfill: N/A

O-rings seals: Yes \_\_\_ No N/A

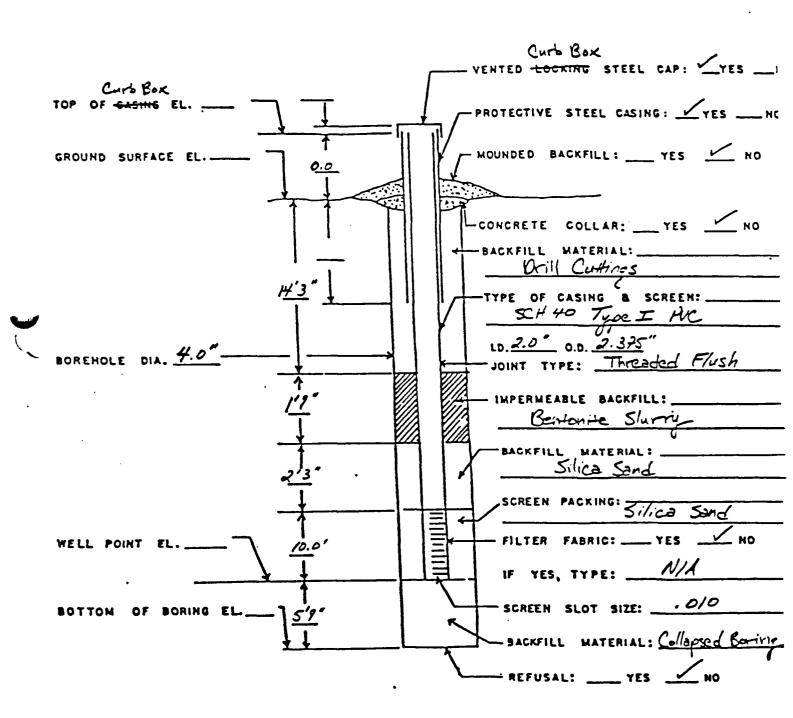
#### GEOLOGIC INFORMATION

Aquifer: Stratified Uniff

Inferred relationship to plume: \_\_\_\_ Within \_\_\_ Outside \_\_\_ Edge Watershed (plume discharge watercourse): Naugatuck Liver; Kranch Aquifer materials (attach boring log): Sand and Gravel Attach maps and plans required of G.1.j. and G.4.

# MONITOR WELL INSTALLATION DETAIL FOR WELL IN UNCONSOLIDATED DEPOSIT

mw 510



Glenn Drilling Inc. Fuss & O'Neill BORING CLIENT \_\_\_ NUMBER Scott Hill Road Envirite 52D PROJECT NAME -Colchester, Ct 06415 (203)887 - 3621Thomaston CT SHEET LOCATION \_ Na. 1 ARCHITECT ENGINEER DRILLER\_ Steve Cohen FILE NO. \_ Sampler Core Barret INSPECTOR \_\_ Rick SURFACE ELEV. HW SS TYPE 4" 1%" DATE START July 25, 1986 SIZE I.D. LINE & STATION \_\_\_ 140# HAMMER WT. Air 30" DATE FINISH July 28, 1986 HAMMER FALL OFFSET\_ SAMPLE BLOWS PER 6" COL. STRATA FIELD CLASSIFICATION AND REMARKS ... CHANGE DEPTH RANGE ON SAMPLER REC. NO. 6-12 | 12-18 4.0'-5.0' S-1 14 60 0.3 Sand and Gravel. (Fill) 10 S-2 14.2'-15.0' 75 1100 Rock Chips 15 **1**20 5 5-3 24.0'-25.5' 19 71 10 **b.**2 Fine-Coarse Sand. Medium Gravel. Tra 25" Silt. Rock Chips 30 '**-**S-4 34.01-35.51 15 h.5 Fine-Coarse Sand. Fine-Medium Grave: B5 '~ 20 29 39.0'-40.5' 18 **SAMPLE IDENTIFICATION** PENETRATION RESISTANCE PROPORTIONS USED REMARKS 140 b. Wt. felling 30" on 7" O.D. Sampler - SPLIT SPOON 0 to 10% Water @ 20.5' Conceive Consistency Concuentes Dentity THIN WALL TUBE Very Sen Heth 10 to 20% SOR M/SUIT UNDISTURBED PISTON 00M4 20 to 35% - OPEN END ROD 9-15 Stiff 16-30 V-61iff 30-49 WASH SAMPLE 36 to 80%

Very Dance

COL. A \_

·		Sco Colche	n Drillin ett Hill R ester, Ct 03)887-3	toad t 064			PF		IAME	Fuss & O'I Envirite Thomaston		SORING NUMBER 52D SHEET
DAILL	ER	Steve	Cohen		ARCHI ENGIN						FILE NO.	No.2
INSPE	CTOR_	Rick					Cour	• S	emeter SS	Care Serret	SURFACE ELEV.	
DATE	START	_July	25, 1986		SIZE I		4"		1½" 140#		LINE & STATION	
DATE	FINISH	July	28. 1986	<u></u>	J	ER FALL			30"		OFFSET	
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90	s		BED PISTON ROD	5-9 10-29 30-49 50 •	Ma	Loose Dones y Dones		3-4 Set	<b>L</b> uff	some 20 to	36%	

#### GENERAL INFORMATION

Town: Thomaston, CT.

Monitoring Point I.D. No.: MW 520

DEP/WPC I.D. No:

Site: Envinte Conscration

Date of completion: 7.28.86

Monday

Konitoring Point Location (relative to site features): Canter of Projectly; Adj
to Metal Starresse Supervising Engineer/Geologist:

Drilling Contractor: Gleun Dalling, Inc.

Rick Christiana

Well Construction Method:

Hollow Stem Auger - Air Hommer - 4" Casino

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground surface elevation (MSL):

342,24 A.

Well depth below ground surface: 57-f

Refusal: \_\_\_ Yes \_\_ No

Top of casing elevation (MSL):

Length of Screen: 15.06.

Length of riser pipe: KS.5-C

Screen type: 5/0 Hed NC

Filter fabric: \_\_\_ Yes \_\_ No

Screened interval:

584 6in to 1346in

Screen Slot size: .0/0

Screen packing: \_\_\_ Yes \_\_\_ No

Thickness: N/A If yes,

Faterial: N/A

grain size: N/A

Impermeable Backfill: Bertonite Skir

Estimated K screened interval: 10-3

Time spent developing: / hr 10 min

Impermeable backfill: Concrete Co.

Well inside diameter:

2.0 in

Well casing material and schedule: SCN KO Type I PVC Nethod of well development:

Centrifugal lump Locking or threaded cap.

Bedrock w	ells
-----------	------

Casing length: N/A

Water-bearing rock unit: N/A

Water bearing sections (depths and approximate yields): N/A

Length of rock core: N/A

Diameter of core hole: N/A

Thickness and depth of impermeable backfill: N/A

O-rings seals: \_\_\_\_Yes \_\_\_\_ No N/A

### GEOLOGIC INFORMATION

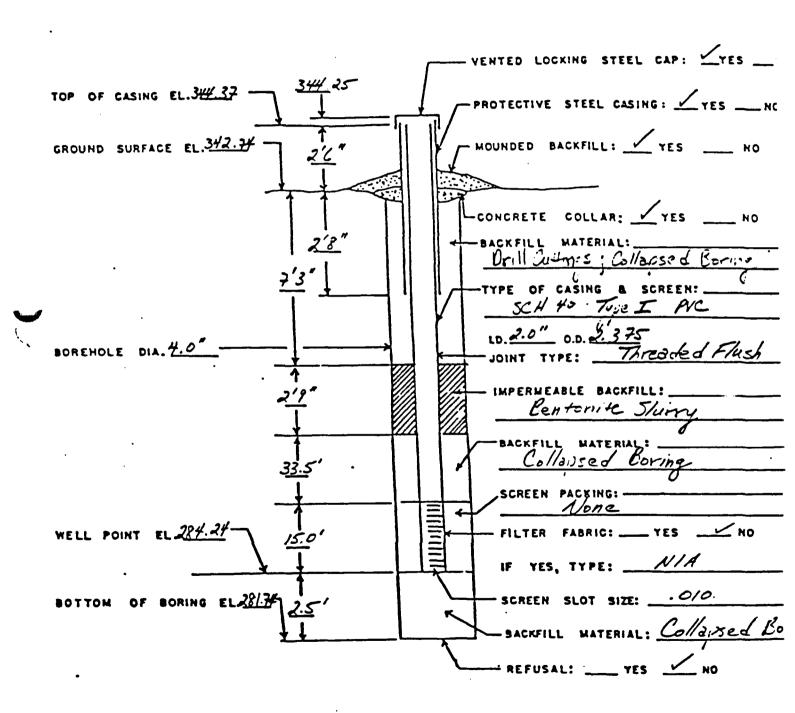
Aguifer: Stratified Drift

Inferred relationship to plume: \_\_\_\_\_ Within \_\_\_\_ Outside \_\_\_\_ Edge
Watershed (plume discharge watercourse): Nau-a +uck & ver; Branch & Cock
Aquifer materials (attach boring log): Sand and Grace {

Attach maps and plans required of G.1.j. and G.4.

# MONITOR WELL INSTALLATION DETAIL FOR WELL IN UNCONSOLIDATED DEPOSIT

MW 520



#### Fuss & O'Neill BORING Glenn Drilling Inc. CLIENT\_ NUMBER Scott Hill Road Envirite 85 PROJECT NAME -MW-530 Colchester, Ct 06415 (203)887 - 3621Thomaston, CT SHEET LOCATION \_ No.1 ARCHITECT Steve Cohen ENGINEER DRILLER FILE NO. \_ Com Someter Care Barrel INSPECTOR \_ Rick SURFACE ELEV. \_\_\_ SS TYPE 4" 1%" SIZE I.D. DATE START July 23, 1986 LINE & STATION \_\_\_ 140# HAMMER WT. 30" DATE FINISH July 24, 1986 -HAMMER FALL OFFSET\_ SAMPLE COL. BLOWS PER 6" STRATA FIELD CLASSIFICATION AND REMARKS CHANGE DEPTH RANGE ON SAMPLER REC. 0-6 | 6-12 | 12-18 S-1 0-1.5' 5 7 1.2 Fine-Coarse Sand. Fine-Coarse Silt. S-2 10 " 2 S-2 10.0'-11.5' 7.4 Fine-Coarse Sand and Silt. Trace Fine Gravel. 13.0' (WET) 115" S-3 15.0'-16.5' 18 56 72 0.7 Fine-Coarse Sand. Fine-Medium Grave Fill 20 S-4 20.0'-21.5' 2 6 1.5 Fine-Coarse Sand. 25 ~ S-5 25.0'-26.5' 43 **b.9** Fine-Coarse Sand and Fine-Medium Gravel. 30 4 S-6 30.0'-31.5' 10 14 18 h.2 Fine-Coarse Sand and Fine-Medium Gravel. Little Silt. 35 -Fine-Coarse Sand. Fine-Medium Grav **S-7** 35.0'-36.5' 10 H.O. 40. 12 | 13 | 7 2.0 Fine-Coarse Sand. 41.51-43.01.Ro 5-8 40.0'-41.5' PENETRATION RESISTANCE REMARKS OF BOTING 13.4 SAMPLE IDENTIFICATION PROPORTIONS USED 140 b. Wt. felling 30" on 2" O.D. Sempler SPLIT SPOON Press 8 to 10% Conceive Commissioncy Bottom of Well 40.0' Concuentou Dentity THIN WALL TUBE Very Sen Very Lease Mith 10 to 20% 15.0' Screen; 30.0' Ric 1 Protective Casing Sen M/Suff UNDISTURBED PISTON

9-15 SUII 16-30 V-41III

Here

OPEN END ROD

WASH SAMPLE

serne 20 to 35%

35 to 50%

COL.A 3/4 Hr Steam

#### MONITOR WELL COMPLETION REPORT

#### GENERAL INFORMATION

Town: Thomaston CT.

Monitoring Point I.D. No.: MW 53 D

DEP/WPC I.D. No:

site: Favirite Corporation

Date of completion: 7.24.86

Thursday

Monitoring Point Location (relative to site features): East Side of Projecty; Drilling Contractor: Gknn Orilling Inc. Supervising Engineer/Geologist: Enven

Well Construction Method:

Hollow Stein Auger; Air Hammer - 4" Casina

WEIL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground surface elevation (MSL):

338.43 A

Well depth below ground surface: #0.0

Refusal: \_\_\_\_ Yes \_\_\_ No

Top of casing elevation (MSL):

Length of Screen: 150 fz

Length of riser pipe: 26.54+

Screen type: 5/0#ed PVC

Filter fabric: \_\_\_\_ Yes \_\_\_ No

Well inside diameter:

2.0 in

Screened interval:

40.0 ft to 25.0 ft

Screen Slot size: .0/0

Screen packing: \_\_\_ Yes \_\_ No

If yes, Thickness: N/A

Faterial: N/A

grain size: N/A

Impermeable Backfill: Bentonike Relles

Estimated K screened interval: 10 cm

Time spent developing: /hr.

Impermeable backfill: Concrete Colle

Well casing material and schedule: Fiethod of well development:

Locking \_\_\_ or threaded cap

_ •			
Bedr	$\sim$	1.30	•
	$\sim$	#C13	

Casing length: N/A

Water-bearing rock unit: N/A

Water bearing sections (depths and approximate yields): N/A

Length of rock core: N/A

Diameter of core bole: N/A

Thickness and depth of impermeable backfill: N/A

O-rings seals: Yes \_\_\_ No N/A

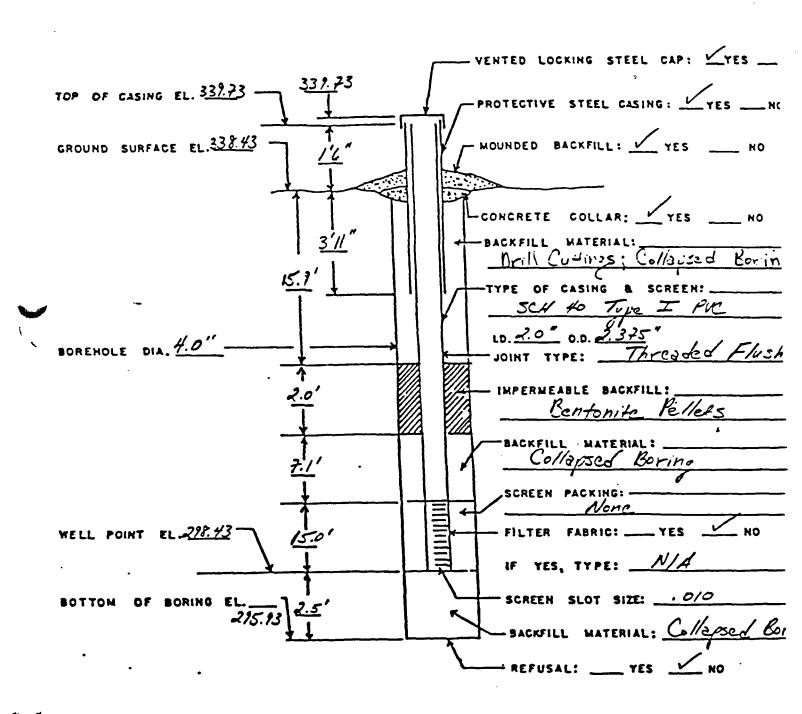
#### GEOLOGIC INFORMATION

Aguifer: Stratified Oriff

Inferred relationship to plume: \_\_\_\_ Within \_\_\_ Outside \_\_\_ Edge
Watershed (plume discharge watercourse): Naugatuck Liver; Branch Brook
Aquifer materials (attach boring log): Sand and Gravel
Attach maps and plans required of G.1.j. and G.4.

# MONITOR WILL INSTALLATION DETAIL FOR WELL IN UNCONSOLIDATED DEPOSIT

### MW 530



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#### GZA GEOENVIRONMENTAL, INC. Boring No. MW-56S Consulting Engineers/Geologists/Environmental Scientists Page ENVIRITE THOMASTON, CONNECTICUT 27 Nack Road Vernon, Connecticut 06066 (203) 875-7655 File No. 41182 **RPM** Chkd. By: Boring Co. KENNEDY AND SONS Groundwater Readings Casing Sampler Time **HSA** S.S. Date Stab. Time oreman Bill Kennedy Турс Depth Casing I.D./O.D. 4-1/4" 2" O.D. 12/6/93 1400 GZA GeoEnvironmental Thomas Loto Řep. Hammer Wt. 300 LB. 140 LB. 12/6/93 1405 9.3' 0900 10.29' Date Start 12/6/93 End 12/6/93 Hammer Fall 30" 1/3/94 See Plan Other Location GS.Elev. Datum Sample Information Sample Stratum Equipment Installed R M K S Blows/ Ť N W G S Pen./ Rec. Depth (Ft.) Field Description & Classification Description No. Test Data Top 7": Loose, dark-brown TOPSOIL, trace Organic fiber Bottom 11": Medium dense, dark-24/18 0.6 TOPSOIL S-1 0-2 3-7 ND 1. Concrete 9-7 brown, fine to coarse SAND, little from Gravel, trace (+) Silt Loose, dark-brown, fine to coarse SAND, little fine Gravel, trace (+) Silt S-2 24/6 2-4 6-6 ND 3-7 Bentonite seal Medium dense, dark-brown, fine to coarse SAND, little Gravel, trace (+) fine to coarse Silt 2'-5' S-3 24/8 4-6 4-8 ND 5 4-4 2" PVC SAND AND GRAVEL Loose, dark-brown, fine to coarse SAND, some (-) fine to coarse Gravel, trace (+) Silt S-4 24/8 6-8 3-4 ND riser 0-7' 5-6 Filter sand 5'-12' S-5 24/7 8-10 3-3 ND Medium dense, dark-brown, fine to medium SAND and fine to coarse GRAVEL, trace (+) Silt 11-9 10 S-6 24/10 10-12 5-5 ND Medium dense, dark-brown, fine to coarse SAND and fine to course GRAVEL, trace (+) Silt 2" PVC screen 7'-12' 12.0' 6-3 END OF EXPLORATION 15 20 25

e m a r k

R

1. Performed field screening on soil samples with a portable HNu (PID). ND indicates None Detected.

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level leadings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. MW-56S

# GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

## ENVIRITE THOMASTON, CONNECTICUT

 Boring No.
 MW-56D

 Page
 1
 of 2

 File No.
 41182

 Chkd. By:
 RPM

MW-56D

Boring No.

Bill Kenne mental Thomas La /29/93 See Plan San lo. Pen./ Rec.		n	Han	./O.D. 4-1/4" 2" O.I mmer Wt. 300 LB. 140 LI mmer Fall 30" 30"	D.	Time	De	pth	Ci	asing	Stab. Tim
Thomas Lo /29/93 See Plan San Pen./	End  Datum  ple Inform  Depth	mation Blows/	Han 4 Han	mmer Wt. 300 LB. 140 LI mmer Fall 30" 30"							
Thomas Lo /29/93 See Plan San Pen./	End  Datum  ple Inform  Depth	mation Blows/	4 Han	mmer Fall 30" 30"	В.				E		
See Plan San Pen./	Datum nple Inform Depth	mation Blows/							F		
San Pen./	nple Inform	mation Blows/	Oth	er				_	<b>T</b>		
Pen./	nple Inform	mation Blows/						_	·		·
Pen./	Depth	Blows/									
Pen./ Rec.	Depth (Ft.)	Blows/		Sample		Stratum	,	R	Equ	ipmen	nt Installed
		l	Field Test Data	Description & Classifica	ıtion	Description		M K S			
						0.6TOPS	OIL	1.		$\prod_{i=1}^{n-1}$	
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. ,		<del> </del>	<del> </del>	1						11	
		<del> </del>	<del></del>					1		11	
		<del> </del>	<del> </del>	NO SAMPLING TO 15 F				1			2" PVC
		<u> </u>	<u> </u>	SEE LOG MW-56S				1		ı   _	0'-49'
			<del> </del>	FOR DESCRIPTION	N					1	
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$\dashv$		<u> </u>	<u> </u>	1						<i>i</i> [	
<del>  </del>		<del> </del>		1						, <b> </b>	Grout 2'-44'
		<u> </u>	ļ			SAND AND	ĺ	1		1	
		<u> </u>		]		GRAVE	L		11	,	
							1			. [	
		ļ!		]							
1 24/14	15-17	10-16	ND	Dense, light-brown, fine to medium SAND, little fine to coarse Gravel	m				11		
		18-29		trace Silt	'		- 1		11	1	
		'	<u> </u>	]					11	,	
		<u> </u> '		]						.	
		<u> </u> '	ļ	1						,	
24/17	20-22	19-16	ND	Dense, yellowish-brown, fine to coarse GRAVEL (Rock fragments	s) some		- (	1	11	,	
$\perp \perp \downarrow$		29-33	<u> </u>	(-) fine to coarse Sand, little						,	
		ļ!	'	(-) 5						,	
			<u> </u>	1	j					.	
		<u> </u>	<u> </u>	]						, [	
3 24/9	25-27	15-25	ND	Very dense, light-brown, fine to coarse GRAVEL (Rock fragments	.)		1			, [	
		30-39	<u> </u>	some (+) fine to coarse Sand, trace	'.e'					,	
		<u> </u> '	<u> </u>	( , , , , , , , , , , , , , , , , , , ,	ļ		- 1			, ]	
	<u> </u>	<u> </u>	<b></b> '	1	]		1			.	
	<del></del>	<u> </u>	<u> </u>					Ш		Ш.	
P	24/17 24/9 24/9	24/17 20-22 24/9 25-27 Performed field screeni	24/17 20-22 19-16 29-33 24/9 25-27 15-25 30-39 2erformed field screening on soil	24/17 20-22 19-16 ND 29-33  24/9 25-27 15-25 ND 30-39  Performed field screening on soil samples with	24/14 15-17 10-16 ND  18-29  24/17 20-22 19-16 ND  29-33  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  25-27 15-25 ND  26-27 15-25 ND  26-27 15-25 ND  27-28 15-25 ND  28-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 15-28 1	24/14 15-17 10-16 ND Dense, light-brown, fine to medium SAND, little fine to coarse Gravel, trace Silt  24/17 20-22 19-16 ND Dense, yellowish-brown, fine to coarse GRAVEL (Rock fragments) some (-) fine to coarse Sand, little (-) Silt  24/9 25-27 15-25 ND Very dense, light-brown, fine to coarse GRAVEL (Rock fragments), some (+) fine to coarse Sand, trace (+) Silt	FOR DESCRIPTION  SAND AND GRAVE  24/14 15-17 10-16 ND 18-29	FOR DESCRIPTION  SAND AND GRAVEL  24/14 15-17 10-16 ND  18-29  Dense, light-brown, fine to medium SAND. little fine to coarse Gravel, trace Silt  Dense, yellowish-brown, fine to coarse GRAVEL (Rock fragments) some (-) fine to coarse GRAVEL (Rock fragments). Some (-) Silt  24/9 25-27 15-25 ND  24/9 25-27 15-25 ND  Very dense, light-brown, fine to coarse GRAVEL (Rock fragments), some (+) Silt  Very dense, light-brown, fine to coarse GRAVEL (Rock fragments), some (+) Silt  Performed field screening on soil samples with a portable HNu (PID); ND indicates None Detected.	FOR DESCRIPTION  SAND AND GRAVEL  24/14 15-17 10-16 ND  18-29  24/17 20-22 19-16 ND  29-33  29-33  29-33  C) Fine to coarse GRAVEL (Rock fragments) some (-) Silt  24/9 25-27 15-25 ND  Very dense, light-brown, fine to coarse Sand, little (-) Silt  Very dense, light-brown, fine to coarse Sand, little (-) Silt  24/9 25-27 15-25 ND  Very dense, light-brown, fine to coarse GRAVEL (Rock fragments), some (+) fine to coarse Sand, trace (+) Silt	FOR DESCRIPTION  SAND AND GRAVEL  24/14 15-17 10-16 ND Dense, light-brown, fine to medium SAND, little fine to coarse Gravel, trace Sill  24/17 20-22 19-16 ND Dense, vellowish-brown, fine to coarse GRAVEL (Rock fragments) some (-) fine to coarse Sand, little (-) Sill  24/9 25-27 15-25 ND Very dense, light-brown, fine to coarse GRAVEL (Rock fragments), some (+) fine to coarse GRAVEL (Rock fragments), some (+) Sill  Performed field screening on soil samples with a portable HNu (PID); ND indicates None Detected.	FOR DESCRIPTION  SAND AND GRAVEL  24/14 15-17 10-16 ND 18-29

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

## ENVIRITE THOMASTON, CONNECTICUT

 Boring No.
 MW-56D

 Page
 2
 of 2

 File No.
 41182

man	_	NEDY A	ND SONS	}	•	Casing	Sampler		Grou	ndumt	er Re	adinos		
						Casing	Sampler		GIOU	iluwat	01 100	uuiiigs		
		Bill Kenne	dy		Тур	e HSA	S.S.	Date	Time	De	pth	Casin	ıg	Stab. Time
l Envir	onmen	tal			I.D.	/O.D. 4-1/4"	2" O.D.	1/3/94	0830					
CIIVIIC	T	homas L	oto		Han	nmer Wt. 300 LB.	140 LB.							
Start	12/29	/93	End_	1/5/94	Han	nmer Fall 30"	30"			<u> </u>				
tion	_s	ee Plan	<u> </u>		Oth	er		L	1	<u> </u>		<u></u>		
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C B S L						1	-				R M	Equip	ment	Installed
N W G S	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data	Description	& Classification		Description	n	K S			
	S-4	24/16	30-32	6-6	ND	Medium dense, light-b	rown, fine to				1.		]	'
				9-11		medium SAND, trace	Silt				2.			
						1			:					
			-			1			FINE T	O.	1 1	11.	١,	Z4
													Γ	Grout 2'-44'
	S-5	24/0	35-37	13-7	ND	No recovery							L,	" PVC
				10-13								$\Pi$	ris	
	_													0 47
									40.0'		]			
	S-6	24/8	40-42	12-16	ND	Dense, light-brown, fir fine Gravel, little Silt	e SAND, trace				Н	H		
				25-44							.			
	S-7	24/12	42-44	12-16	ND	Very dense, light-brow trace (+) Silt	n, fine SAND,							
	S-8	24/18	44-46		ND	Medium dense, brown, little (-) Silt	fine SAND,						- E	
				<del>                                     </del>						,				44'-46'
	S-9	24/18	46-48		ND	Medium dense, brown, little (-) Silt	, fine SAND,						_	
		2.112		<del> </del>									۲	ilter sand 46'-54'
	S-10	24/12	48-50		ND	Medium dense, brown, little (-) Silt	fine SAND,		ı			Н		• PV / C
$\dashv$	C 11	24/14	50.52		NID	Madium danas basum	Ene SAND		l			H		" PVC een - 49'-54'
$\dashv$	3-11	24/14			ND	little (-) Silt, trace Org	anic					oxdot		47 -J4
$\dashv$	S-12	24/12	52-53 A	-	ND							$oxed{\mathbb{H}}$		
-	J-12	27/12	32-33.4		140	(-) Silt, trace Organic f	ibers		53.4'			$oldsymbol{H}$		
$\dashv$				30/3					END O	F TION		8 <b>1 1</b> 888	1	
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		S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12   S-12	S-10   24/12   S-12   24/14   S-12   24/12   S-12   24/12   S-12   24/12   S-12   24/12   S-12   24/12   S-12   24/12   S-12   24/12   S-14   24/14   S-15   24/15   S-16   24/15   S-16   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/15   3/	Selev.   Datum   Sample Inform   SL	Sieva   Sample Information   Shape   Sample Information   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   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#tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

MW-56D

#### GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists MW-57 Boring No. Page of 1 ENVIRITE THOMASTON, CONNECTICUT 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 File No. 41182 Chkd. By: **RPM** Poring Co. KENNEDY AND SONS Groundwater Readings Casing Sampler S.S. Depth Casing Stab. Time **HSA** Date Time Bill Kennedy Type **∉**oreman 2" O.D. 12/6/93 1110 I.D./O.D. 4-1/4" 8.4 GeoEnvironmental Řep. 140 LB. 12/6/93 1130 8.6' Thomas Loto Hammer Wt. Date Start 12/6/93 End 12/6/93 Hammer Fall 30" 12/6/93 1400 8.11' Location See Plan Other GS.Elev. Datum Sample Information Sample Stratum Equipment Installed N W G S Blows/6" Ť H Pen./ Depth (Ft.) Field Description & Classification Description No. Test Data Top 3": Loose, dark-brown TOPSOIL, trace Organic fibers Bottom 11": Medium dense, light-brown, fine to medium SAND, little (+) fine to coarse Gravel, trace Silt —Very dense, brown to white, fine to coarse SAND, some (+) fine to coarse Gravel (Rock fragments), trace Silt Concrete 0-1.5 S-1 24/14 0-2 4-9 ND .25 TOPSOIL 1 14-26 2" PVC S-2 24/8 2-4 38-42 ND riser 38-24 Bentonite S-3 24/18 4-6 4-4 ND seal 1.5'-5' Loose, light-brown, fine to medium SAND, trace (+) fine Gravel and Silt 6-4 **SAND** Filter sand 5'-12' GRAVEL Medium dense, brown, fine to coarse GRAVEL (Rock fragments), little (+) fine to coarse SAND, trace Silt ND 24/8 6-8 5-7 2\* PVC 11-11 screen 7'-12' Medium dense, fine to coarse GRAVEL (Rock fragments), little (-) fine to coarse Sand, trace Silt S-5 24/7 8-10 14-14 ND 14-16 10 Dense, brown, fine to coarse GRAVEL (Rock fragments), little (-) fine to coarse Sand, trace Silt S-6 24/7 10-12 17-22 ND 19-11 12.0' END OF EXPLORATION 15 20 25

utratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

1. Performed field screening on soil samples with a portable HNu (PID); ND indicates None Detected.

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Boring No. MW-57

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

## ENVIRITE THOMASTON, CONNECTICUT

Boring No. MW-58S Page of 1 File No. 41182 Chkd. By: **RPM** 

MW-58S

Boring No.

- 1							•					<del></del>			
	Юri	ing Co	. KEN	NEDY A	ND SONS	3			Casing	Sampler		Grou	ndwater Re	adings	
	Fore	man	I	Bill Kenne	-dy		 Тур	e	HSA	S.S.	Date	Time	Depth	Casing	Stab. Time
ļ	GZ		_					/O.D.	4-1/4"	2" O.D.	12/6/9	93 0915	7.5'		
		Envir	onmen	tal Thomas L	oto			nmer Wt.	300 LB.	140 LB.	12/6/9		6.3'	<del> </del>	
Ì	_		12/6/			12/6/93		nmer Fall	30"	30"	12/6/9	<del></del>	6.5'		
		ition	_	ice Plan			Oth	-			<u> </u>	<del></del>			
		Elev.			Datum								<u> </u>	<u>.l</u>	L
			Γ'''	San	nple Inform				Se	ımple		Stratur	n R	Equipment	t Installed
1	D P T H	CB SL NW	<b> </b>	Pen./	<del></del>	Blows/	Field	1		t Classification		Description	I M I		
1	Ĥ	ĠŚ	No.	Rec.	Depth (Ft.)	6"	Test Data		Description		İ	Decempeso	n K S	<del></del>	
ı			S-1	24/22	0-2	3-3	ND	Top 4":	Loose, dark-br	own TOPSOIL,		0.3TOPS	OIL 1.	┧┟┝╵	Concrete 0-1'
		<u> </u>				3-4	<u> </u>	Bottom 1	Root fibres 18": Loose, dar D, some Silt	rk-brown,					entonite eal
ļ						<u> </u>			D, some one			SILTY	,	<b>33   133</b>	1'-5' 2" PVC
1												FINE SAND			ser
1												371112			
ł	3		S-2	24/12	5-7	4-2	ND	Top 4": 1	Loose, dark-br ome Silt, occas	own, fine		6.0'			Filter sand
1						2-4		fibres		_		FINE T	o,	$\square$	4'-11'
1						T		to mediu	8": Loose, light m SAND, trace	e Silt		7.0' SANI	5 <sup>m</sup>		PVC
-								1						## ## ## ## ## ## ## ## ## ## ## ## ##	6'-11'
į			S-3	24/14	9-11	20-21	ND	Dense, li	ght-brown, fine	to coarse				HI	
ļ	10					12-7		SAND, s trace Silt	ome fine to co	arse Gravel,		SAND AND	1 1	ĦI	_
ł			S-4	24/13	11-13	6-6	ND	Medium	dense, light-br	own, fine to		GRAVI	EL   f		
•						12-10		coarse SA trace Silt	AND, little (+)	) fine Gravel,		13.0'			
-	1					1		1				END O	F		
1				1		+		1				EXPLORA	TION		
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						<u> </u>		L							
1	R		1. Per	formed fi	ield screen	ing on soil	samples with	a portable	e HNu (PID).	ND indicates No	ne Detecte	eđ.			
}	m a		_ 3-			<i>6</i>			/·						
	r k														
1	`														
	tra	tific	ation	lines	represen	t approx	imate boun	daries be	etween soil	types, transituations of g	tions may	be gradua	al. Wate	r level	
	fact	ors 1	than 1	hose pr	esent at	the time	under cond e measurem	ents were	e made.	tuations of g	Juinanate	i indy UCCL	ار م	- 1 "	) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1

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### ENVIRITE THOMASTON, CONNECTICUT

Boring No	. <b>M</b> \	W-58D
Page	1	of 3
File No.		41182
Chkd. By:		RPM

•	-			ND SONS	<u>,</u>			Casing	Sampler		Grou			_	<u> </u>	
Fore	man	E	ill Kenne	dy		Тур	e _	HSA	S.S.	Date	Time	De	pth	C	asing	Stab. T
GZA	\ Envir	onmen	tal			I.D.	/O.D.	4-1/4"	2° O.D.					<u> </u>	<del></del>	
Rep.		ř <u> </u>	homas L	oto/Valer	ie Roe	Han	nmer Wt.	300 LB.	140 LB.					↓_		
Date	Start	12/7/	93	End	12/20/93	Han	nmer Fall_	30"	30"					$\perp$		
.oca	tion		See Plan	· · · · · · · · · · · · · · · · · · ·		Oth	er			L	<u> </u>			丄		<u> </u>
GS.E	Elev.			Datun	1											
D	C B S L		Sar	nple Infor	mation			Sa	mple		Stratur	n	R M	Equ	uipme	nt Installe
T H	N W G S	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data		Description &	Classification		Descriptio	n	K S			
											0.3 TOPS	OIL	1.		$\prod_{i=1}^{n}$	- Concrete
							]	NO SAMPLIN	NG TO 7 FEET				2.		Ш	0'-3'
					<u> </u>	<u> </u>	j	FOR DESC	RIPTION OF		SILTY	,	1	Ш	Ш	
								SOIL SAMPI	LES 0-7 FEET G MW-58S		FINE SAND					
٫								SEE LO	3 M W - 363	i	5/1140				Ш	
اد							]			L	6.0'		]			
											FINE T	0				
		S-1	24/8	7-9	30-30		Dense, li	ght-brown, fine	to coarse	Γ	7.0' SANE	)				
					16-20		trace Silt	id fine to coars	e GRAVEL,	1			]			
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15		S-2	24/7	15-17	15-12		Medium	dense, light-bro	own, fine to							
			- /		12-12		coarse SA	dense, light-bro ND and fine t L, trace Silt	o coarse	1						Cement
ı	_			·	<del> </del>		1	_ <b>,</b>								- Grout 3'-6
					1		<b> </b>							_	Ш	- 2" PVC
ł	$\dashv$				1		1							1		riser 0'-6
20		S-3	24/6	20-22	36-14		Dense, lie	ht-brown, fine	to coarse	1					11	0 0
ŀ					16-18		SAND, so	ght-brown, fine ome fine to coa	rse Gravel,							
ł					10-10		l race on									
-																
25		S-4	24/7	25-27	33-45	-	Very den	se, light-brown	. fine to							
ŀ	+		, -		16-20		coarse G	se, light-brown RAVEL, some nd, trace Silt	fine to	ŀ						
ŀ		S-5	24/9	27-29	23-29		Dense, lis	ht-brown, fine	to coarse							
}			-1/		20-20		GRAVE	, some fine to	coarse Sand,			į				
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stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. MW-58D

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### ENVIRITE THOMASTON, CONNECTICUT

 Boring No. MW-58D

 Page
 2
 of 3

 File No.
 41182

 Chkd. By:
 RPM

Type	Vor	ing C	o. KEN	NEDY A	ND SONS				Casing	Sampler		Grou	ndwat	er Re	ading	S	
Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comment   Comm	For	eman	E	Bill Kenne	dy		Тур	c	HSA	<b>S.S.</b>	Date	Time	De	pth	Cas	sing	Stab. Time
Rep.   Thomas Locol Valerie Roc	GΖ	A .		4-1			I.D.	/O.D.	4-1/4"	2" O.D.							
Description   See Plan   Datum			nommen T	tai Thomas L	oto/ Valer	ie Roe	Han	nmer Wt.	300 LB.	140 LB.							
Date	Date	e Star	t 12/7/	93	End 1	12/20/93	Han	nmer Fall	30"	30"							
Description   Sample Information   Sample   Stratum   R   Rev.   (First   Blows   Field   Posts   Description   Rev.   Rev.   (First   Blows   Pen.)   Depth   Blows   Field   Posts   Description   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.   Rev.	Loc	ation	S	ee Plan			Oth	er .									
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S.7   24/8   31-33   15-14   Dense, light-brown, fine to coarse Sand, trace Sit	T H	INW	4	Pen./ Rec.		Blows/			Description &	Classification		Description	n	K S			
S.7   24/8   31-33   15-14   Dense, light-brown, fine to coarse Sand, trace Siti			S-6	24/5	29-31	16-9		Medium	dense, light-bro	own, fine to		· · · · · · · · · · · · · · · · · · ·			П	7.	· • •
See   24/7   33-35   23-20	30					12-22		SAND, 1	RAVEL and file trace Silt	ne to coarse					.	1	
See   24/7   33-35   23-20	İ		S-7	24/8	31-33	15-14		Dense, li	ight-brown, fine	to coarse							
S-9   24/4   35-37   9-10   Medium dense, light-brown, fine to coarse Sand, trace Silt   S-9   24/4   35-37   9-10   Medium dense, light-brown, fine to coarse Sand, trace Silt   S-10   37-39   6-10   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recover						20-29		GRAVE trace Sili	EL, some fine to t	coarse Sand,					Ш		
S-9   24/4   35-37   9-10   Medium dense, light-brown, fine to coarse Sand, trace Silt   S-9   24/4   35-37   9-10   Medium dense, light-brown, fine to coarse Sand, trace Silt   S-10   37-39   6-10   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recovery   No recover			S-8	24/7	33-35	23-20		Dense, li	ight-brown, fine	to coarse	ĺ				11	İ	
S-9   24/4   35-37   9-10   Medium dense, light-brown, fine to coarse Sand, trace Sit   S-10   37-39   6-10   No recovery						18-17		GRAVE	EL, some fine to	coarse Sand,							-
S-10   37-39   6-10   No recovery	35		S-9	24/4	35-37	9-10		Medium	dense, light-bro	own, fine							
S-10		$\vdash$				5-5		GRAVE	EL, some fine to	coarse Sand,	I						
1			S-10		37-39	6-10		No recov	verv		1						Cement Frout
S-11 17/1 39-40.4 11-18-50/5   Coarse SAND, some fine Gravel (Quartz regents), little Sitt   40.4'				7-8			Medium	dense, light-bro	own, fine to	1				$\prod$		3'-61.1'	
S-12   24/17   40-42   38-24   ND   Very dense, light-brown, fine to coarse SAND, little (+) fine Gravel, trace Silt			<del></del>		0/5	coarse S	AND, some fine	Gravel							-		
S-13   24/20   42-44   24-22   ND   Dense, light-brown, fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse Sand, trace Silt	40	<u> </u>	S-12	<del> </del>	40-42	38-24	ND	Very der	nse light-brown	. fine to	-	40.4'					
S-13   24/20   42-44   24-22   ND   Dense, light-brown, fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some	•	<del> </del>				40-25		coarse S.	AND, little (+)	fine Gravel,	ł				17		
S-14   24/5   44-46   34-27   ND   Very dense, light-brown, fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, s	1	一	S-13	24/20	42-44	24-22	ND	Dense, li	ight-brown, fine	to coarse							
S-14   24/5   44-46   34-27   ND   Very dense, light-brown, fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, s			<del>                                     </del>	_		22-33		GRAVE	EL, some fine to	coarse Sand,					11		
S-15   24/8   46-48   25-17   ND   Dense, light-brown, fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some f			S-14	24/5	44-46	34-27	ND	Very der	nse, light-brown	, fine to	ſ						-
S-15   24/8   46-48   25-17   ND   Dense, light-brown, fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some f	45	_		<u> </u>		57-30		coarse G Sand, tra	RÁVÉL, some ace Silt	fine to coarse							
S-16   24/8   48-50   25-17   ND   Dense, light-brown, fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse Sand, trace Silt			S-15	24/8	46-48	25-17	ND	Dense, li	ight-brown, fine	to coarse						Ì	
S-16   24/8   48-50   25-17   ND   Dense, light-brown, fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse Sand, trace Silt						28-31		GRAVE	L, some fine to	coarse Sand,						1	
S-17   24/0   50-52   25-23   ND   No recovery			S-16	24/8	48-50		ND	1	,	to coarse	ĺ					ŀ	
S-17   24/0   50-52   25-23   ND   No recovery		$\vdash$	1	1 - 7 -	10 20			GRAVE trace Silt	L, some fine to	coarse Sand,	l				H	1	-
S-18   24/12   52-54   27-16   ND   Coarse GRAVEL, some fine to coarse Sand, trace Silt	50	$\vdash$	S-17	24/0	50-52		ND	1									
S-18   24/12   52-54   27-16   ND   Medium dense, light-brown, fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse Sand, trace Silt									,								
Sand, trace Silt   Dense, light-brown, fine to coarse GRAVEL, some fine to coarse Sand, trace Silt			S-18	24/12	52-54		ND	Medium coarse G	dense, light-bro	own, fine to fine to coarse							
S-19   24/12   54-56   11-16   ND   Dense, light-brown, fine to coarse GRAVEL, some fine to coarse Sand, trace Silt   Top 7": Dense, light-brown, fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse Sand, trace Silt Bottom 7": Very dense, light-brown, fine SAND, trace Silt Bottom 7": Very dense, light-brown, fine SAND, trace Silt No recovery - all wash    R m				- 7, 22													
S-20 24/14 56-58 17-17 ND Sand, trace Silt  Top 7": Dense, light-brown, fine to coarse GRAVEL, some fine to coarse Sand, trace Silt Bottom 7": Very dense, light-brown, fine to coarse Sand, trace Silt Bottom 7": Very dense, light-brown, fine to coarse Sand, trace Silt Bottom 7": Very dense, light-brown, fine to coarse Sand, trace Silt No recovery - all wash  3. Performed field screening on soil samples with a portable HNu (PID). ND indicates None Detected.			S-19	24/12	54-56		ND	Dense, li	ight-brown, fine	to coarse coarse Sand.							_
S-20 24/14 56-58 17-17 ND Top 7": Dense, light-brown, fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine to coarse GRAVEL, some fine	55			/				trace Silt	1	,							
R m d S. Performed field screening on soil samples with a portable HNu (PID). ND indicates None Detected.			S-20	24/14	56-58	-	ND	Top 7":	Dense, light-bro	own, fine to		57.0'					
R m m d S. Performed field screening on soil samples with a portable HNu (PID). ND indicates None Detected.				-747				Sand, tra	ice Silt			- · · · ·					
R m 3. Performed field screening on soil samples with a portable HNu (PID). ND indicates None Detected.			S-21	24/0	58-60		ND	fine SAN	D, trace Silt								
R m 3. Performed field screening on soil samples with a portable HNu (PID). ND indicates None Detected.				,"	20 00			No recov	ery - all wash			₩D					
m 3. Performed field screening on soil samples with a portable HNu (PID). ND indicates None Detected. r k	R		L	Щ		50/7		·			1.,	<del></del>				<u> </u>	·
k	m		3. Per	formed (i	eld screeni	ng on soil	samples with	a portabl	e HNu (PID).	ND indicates None	e Detected.						

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. MW-58

#### GZA GEOENVIRONMENTAL, INC Boring No. MW-58D Consulting Engineers/Geologists/Environmental Scientists Page of 3 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 ENVIRITE THOMASTON, CONNECTICUT 41182 File No. Chkd. By: RPM oring Co. KENNEDY AND SONS Casing Groundwater Readings <u>Sampler</u> **HSA** Date **f**oreman Bill Kennedy Type S.S. Time Depth Casing Stab. Time 4-1/4" 2" O.D. I.D./O.D. GZA GeoEnvironmental 300 LB. 140 LB. Rep. Thomas Loto/Valerie Roc Hammer Wt. Date Start 12/7/93 End 12/20/93 Hammer Fall 30" 30" Location See Plan Other GS.Elev Datum C B S L Sample Information Equipment Installed Sample Stratum R M K S Ť Pen./ Depth N W Blows, Field Description & Classification Description (Ft.) No. Rec Test Data Cement S-22 24/6 60-62 18-24 ND Very dense, light-brown, fine SAND, trace Silt Grout 0'-61.1' FINE SAND 26-30 Bentonite S-23 24/12 62-64 21-22 ND Grout Dense, light-brown, fine SAND, trace 61.1'-63.1' 64.0' 22-32 Dense, light-brown to black, fine to medium SAND, trace fine Gravel S-24 24/4 64-66 22-21 ND 65 2" PVC 22-38 riser 0'-68.5' S-25 24/0 66-68 3-4 ND No recovery FINE 4-3 TO COARSE SAND Filter sand Medium dense, light-brown to grey, fine to coarse SAND, little fine to coarse Gravel, trace Silt 63.1'-75.1' S-26 ND 24/6 68-70 7-8 22-33 70 S-27 24/1 44-46 ND Very dense, light-brown, fine to coarse SAND, trace Silt 70-72 2" PVC 31-30 screen 68.5'-75.1' Very dense, light-brown to orange, fine to coarse SAND, little fine Gravel, trace Silt (TILL) 20/6 72-73.7 28-39 ND S-28 47-50/2" 75.1' 7 END OF EXPLORATION (REFLISAL) 80

R e m a r

85

4. A bentonite grout was used as the bentonite seal due to method employed by contractor. An exact measurement of the bentonite could not be made.

ratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. MW-58D

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

## ENVIRITE THOMASTON, CONNECTICUT

Boring No. MW-59S Page of 1 41182 File No. Chkd. By: RPM

MW-59S

Boring No.

30	ring	Co. KE	NEDY A	ND SONS	3			Casing	<u>Sampler</u>		Gro	indwat	er R	eadings	
<b>T</b> 60	rem	an	Bill <b>Ke</b> nne	edy		Тур	c	HSA	S.S.	Date	Time	De	pth	Casing	Stab. Time
	ZA 					I.D.	/O.D.	4-1/4"	2" O.D.	11/30,	/93 1000	9	.4'	10'	
Re		ivironme	Thomas L	oto/Valeri	ie Roe	Har	nmer Wt.	300 LB.	140 LB.	11/30	/93 1110	8	.1'	1	
Da	te S	tart 11/3	0/93	End	11/30/93	Har	nmer Fall	30"	30"	12/6/9	93 0810	7.	66'		
Lo	catio	on	See Plan			Oth	er								
GS	S.Ele	ev.		Datum	1										
D P T	ç	В	Sai	mple Infori	mation			Sa	ample		Stratu	m	R M	Equipmen	t Installed
T H	2 0	N W S No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data		Description &	& Classification		Description	on	K S		_
	L	S-1	24/18	0-2	2-5	ND	Top 6":	Loose, dark-br	own TOPSOIL,	•	0.5 TOP	SOIL	1.		Concrete 0-1'
	L				7-7		Bottom	12": Medium d	own TOPSOIL, lense, light- e fine to						Bentonite
	L				<u> </u>		coarse C	Gravel, trace Sili	t						22 1'-3'
	L		<u> </u>												2" PVC
	<u>5</u>						]				SAN	<b>1</b>			ser 0-5'
	Ľ	S-2	24/24	5-7	2-2	ND	Loose, I	light-brown to b um SAND, trace	rown, fine		ANI GRAV	)		HL	Filter sand
	L		j	<u> </u>	2-6			um or uvo, mac	c siit		Gienv	LL			3'-15'
	L	S-3	24/18	7-9	22-22	ND	Dense, I	light-brown, fine EL (Rock frager	to coarse						2" PVC
	L				18-20		medium	to coarse Sand	, trace Silt						reen 5'-15'
1	مل	S-4	24/12	9-11	14-23	ND	Dense, I	light-brown to b GRAVEL, trace	lack, fine to						J 15
'	Ľ				17-23		to coars	e Sand, trace Si	lt						
		S-5	24/20	11-13	19-9	ND	Top 4":	Dense, light-br	own to RAVEL trace		12.0'				
	L				7-7		I(+) med	dium to coarse S	Sand, trace Silt dense, brown to		FINE 7	$\mathbf{r}$		$\Box$	
	L	S-6	24/24	13-15	3-3	ND	black	, fine to mediun	n SAND, some		MEDII SAN	JM			
1:	,				4-5	<u> </u>	Botto	om 10": Medium	t n dense, brown, D, some (+) Silt		15.0				_
"	Ĺ				<u> </u>		(occa	sional clay lense	es)		END (	)F	,		
							S-6	ight-brown, fine	to medium		Z. II DO I				
	L						SAND,	trace (+) Silt	to medium						
-	L														
20	<u>, L</u>	_			ļ		_								_
	L				<u> </u>		1								
1	L				ļ		1								
1	L		<b>.</b>				ļ								
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25	; <b> </b>	_	ļ				{								-
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	L														
		_													
	L		ļ												
<u></u>	_				<u></u>				<del></del>						
R		1. Pe	rformed fi	ield screeni	ing on soil	samples with	a portab	le HNu (PID): 1	ND indicates None	Detected	<del>J</del> .				
m								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
r k															:
`								<del> </del>			······································				
tr	atii din	fication	n lines been ma	represent	t approx	imate bound	daries b	etween soil	types, transiti tuations of gro	ions may	be gradu	al. H	late	r level other	
fac	tor	s than	those pr	esent at	the time	measurem	ents wer	e made.					Ē	Daning No.	MW FOC

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

## ENVIRITE THOMASTON, CONNECTICUT

 Boring No. MW-59D

 Page
 1
 of 2

 File No.
 41182

 Chkd. By:
 RPM

3oring Co. KENN	EDY AND SONS		Casing	Sampler		Grou	ndwater Re	adings	
Foreman Bil	Kennedy	Туре	HSA	S.S.	Date	Time	Depth	Casing	Stab. Time
GZA		I.D./O.D.	4-1/4"	2" O.D.	12/3/93	1230	9.14'		
GeoEnvironmenta Rep. The	omas Loto/ Valerie Roe	Hammer Wt.	300 LB.	140 LB.	12/3/93	1320	9.115'		
Date Start 12/1/93	End 12/3/93	Hammer Fall	30"	30"	12/3/93	1430	9.115'		
Location Sec	Plan	Other			12/6/93	0800	7.97'		
CC Ele	Datas	-							_

1	ation		cc I lall				<b></b>	12/0/75 0000	1.21		!
GS.	Elev.			Datun	1		<b>-</b>				
D P	CB		Sar	nple Infor	<b></b>		Sample	Stratum	R	Equi	pment Installed
Ť H	CB SL NW GS	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data	Description & Classification	Description	R M K S		<b>-</b>
	_				<u> </u>		NO SAMPLING TO 20 FEET		1.		(concrete) (0' to 3')
	lacksquare				<del> </del>		FOR DESCRIPTION OF	FINE TO MEDIUM			
					<u> </u>		SOIL SAMPLES 0-20 FEET SEE LOG MW-59S	MEDIUM SAND			
					<u> </u>	<u> </u>	SEE LOG MW-59S			1	
20		S-1	24/16	20-22	11-17	ND	Top 10": Dense, light-brown, fine	21.0'			- Grout
			,		19-16		Top 10": Dense, light-brown, fine to medium SAND, trace Silt Bottom 6": Dense, brown, fine to coarse GRAVEL, trace fine Sand	<u> </u>	-		3'-13'
							to coarse GRAVEL, trace fine Sand and Silt	GRAVEL		-	2" PVC
											riser 0'-40'
25								25.0'			
ت		S-2	24/16	25-27	17-31	ND	Dense, light-brown, fine to coarse SAND, trace Silt			$ \  \  $	
		_			18-17		Grave, nace on				
_				·	<u> </u>						Bentonite — seal
					<u> </u>						27'-29'
<b>3</b> 0											
		S-3	24/16	30-32	17-12	ND	Medium dense, light-brown, fine to coarse SAND, trace (-) fine Gravel,				
	-	1			10-7		trace Silt	EINE TO			- Filter
					<del>                                     </del>			FINE TO COARSE SAND	Ì		sand 29'-50'
				<del> </del>	<del> </del>			JAND			
35		S-4	24/16	35-37	35-33	ND	Very dense, light-brown, fine to coarse SAND, trace (-) fine Gravel				
					22-22		coarse SAND, trace (-) line Gravel		1		
40										Ш	
		S-5	24/0	40-42			No recovery				
					ļ					H	2" PVC screen
										H	40'-50'
	$\dashv$									$\mathbb{H}$	
											<b>8</b>

R e m a r k

- 1. Performed field screening on soil samples with a portable HNu (PID). ND indicates None Detected.
- 2. Stratum description for top 20 feet based on nearby boring MW-59S.

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. MW-59D

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

## ENVIRITE THOMASTON, CONNECTICUT

FINE TO COARSE SAND 
 Boring No. MW-59D

 Page
 2
 of 2

 File No.
 41182

 Chkd. By:
 RPM

screen 40'-50'

MW-59D

or	ing Co	. KEN	NEDY A	AND SONS	5			Casing	Sampler			Groun	ndwat	er R	eadings	
For	man	E	Bill Kenn	edy		Турс	;	HSA	S.S.	Date		Time	De	pth	Casing	Stab. Time
GZ			4-1			 I.D.,	O.D.	4-1/4"	2" O.D.	12/3/9	)3	1230	9.:	14'		}
Rep		nomen T		oto/ Valer	ie Roe	Ham	mer Wt.	300 LB.	140 LB.	12/3/9	)3	1320	9.1	15'		
Date	Star	t 12/1/	93	End	12/3/93	Ham	mer Fall	30"	30°	12/3/9	)3	1430	9.1	15'		
Loc	ation	See Plan			Othe	er			12/6/9	23	0800	7.9	97'			
GS.	Elev.			Datum	1	<del></del>										
Ď	СB		Sa	mple Inform	nation			Sa	mple			Stratum	n	R	Equipmen	t Installed
P T H	S L N W G S	No.			Field Test Data		Description &	Classification		D	escription	n	M K S			
		S-6	24/4	40-42	5-5	ND	Medium	dense, light-bro	own, fine to					1.		• • •
					5-9		(Rock fra	AND, litile fine agments), trace	Silt						$\square$	Filter sand
															H	29'-50'
			T		1											2" PVC

	 S-7	24/24	45-47	8-5 5-8	ND	Medium dense, light-brown, fine to coarse SAND, trace fine Gravel and Silt		
<b>5</b> 0	S-8	6/6	50-52	37-50/0	- ND	Very dense, fine to coarse SAND, trace fine to coarse Gravel, trace Silt, 1" weathered Rock and clayish Silt	END OF EXPLORATION (REFUSAL)	
55								
60								-
65						,		
R								

R e m a

- 1. Performed field screening on soil samples with a portable HNu (PID). ND indicates None Detected.
- 2. Stratum description for top 20 feet based on nearby boring MW-59S.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

## ENVIRITE THOMASTON, CONNECTICUT

Boring No. MW-60
Page 1 of 1
File No. 41182
Chkd By: PPM

Ц_														iku. by.	Krivi	_
,or	ing Ca	o. KEN	INEDY A	AND SONS	S			Casing	Sampler		Grou	ndwater l	Read	dings		
For	eman		Bill Kenne	edy		Тур	c	HSA	S.S	Date	Time	Depth	a ]	Casing	Stab. Time	
GZ	<u>A</u>		•			I.D.	./O.D.	4-1/4"	2" O.D.	11/30/93	3 1300	7.4'		10'		_
Rep		ronmen T	ital Phomas L	.oto/ Valer	rie Roe	Нап	nmer Wt.	. 300 LB.	140 LB.	11/30/93	3 1315	7.0'	$\Box$	10'		
Dat	e Star	rt 11/30	)/93	End	11/30/93	<u></u> Нап	mmer Fall	1 30"	30"	12/6/93	0815	6.6'	$\Box$			_
Loc	ation		See Plan			Oth	er						$\Box$			_
GS.	Elev.			Datun	n								_			
D	ÇВ		Sar	mple Infor	mation			S	Sample		Stratun	n R	Ţ	Equipment	Installed	_
D P T H	S L N W G S	И	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data		Description (	& Classification	1	Description	n R M K S				_
		S-1	24/18	+	5-8	ND	Top 3":	PAVEMENT		$\overline{}$	PAVEME		_	TT-	Concrete	-
					7-7		Bottom	: PAVEMENT 1 18": Medium of to brown, fine S	dense, light iAND, trace		0.25'				0-1' Bentonite	
			<b>†</b>		1		Silt, littl	tle (-) fine Grave	el					8 IXXI	al 1'-2'	
					1	1	1			1					2" PVC ser	
۱ ,							1							HII .	0-4'	
5		S-2	24/20	5-7	2-2	ND	Loose,	light brown to b	orown, fine					用厂'	Filter sand 2'-14'	
					2-2	1	SAND,	trace Silt			SAND				2" PVC	
		S-3	24/6	7-9	12-20	ND	Dense,	light brown, fin	ie to coarse		AND GRAVE	il		<b>□</b>   "	reen 4'-14'	
	$\Box$				29-21		GRAVI	EL (Rock fragm coarse Sand, tra	ne to coarse ments), trace (+) ace Silt					ĦI		
		S-4	24/6	9-11	19-12	ND	7		rown, coarse trace (+) fine to	- 1				Ħ		
10			1		9-13		to medi coarse	ium GRAVEL, Sand, trace Silt	trace (+) tine to	İ				日		_
	$\Box$	S-5	24/14	11-13	13-12	ND	Mediur	m dense, light-bi	rown, coarse					H		
į					10-14		to medi to coarr	ium GRAVEL, se Sand, trace Si	little (-) fine ilt					用丨		
		S-6	12/0	13-14	8-9	ND	No sam				14.0'			ĦI		
					†		1	•			END O	F	-	ومنتقيية		
15							İ			] =	EXPLORA	TION	-			-
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e m		1. Per	:formed fi	ield screen	ing on soil	samples with	ı a portab	ile HNu (PID);	ND indicates None	e Detected.						
a r																
k	l															

Itratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. MW-60

F	JSS	3&6	O'NEI	LL, IN	IC.			PROJ	JECT/LOCATI	ON	BORING	NO MW.	-61B	
a	ON	SUL	JING	ENGI	NI	Œ	<b>8</b> 5	E	Envirite Corp.		SHEET 1	OF	2	
M	AN	ICH	ESTE	R, CT	060	40		Thoma	aston, Connec	ticut	JOB. NO.	91-580		
DI	RILL	ER _	O. Art Dave Ko	waleski		TIVE	S. Ro	chelt	DATE STA	ELEVATION RTED 04/21				93
	ו ווכ	INIC N	METHOD	Spin C	Laci	na			<u> </u>	VATER LEV				
			METHOD						04/28/93	MS. PT. Ground	10.10	HR AFTER	20.0	TION
			/T. <u>140</u>				R FALL (	IN) <u>30</u>	J-1/25/55	GIGGIIG			20.0	
-	<del></del>	<del>T</del>		SAMPI	E			<del></del>	لـــــا			<del></del>	T .	<del></del>
E	CASING	NO.	DEPTH (ft)	1	<del>-</del> -	ows/	SOIL	,	SAM DESCR			uscs	FIELD TESTING	
	-							No samples tak	ken 0 to 12 feet					
	_													
12.0			12-14	24/8	6	7 8	Loose	SAND, F-C, dar	rk yellowish brown	ı, damp.			0 ppm	12.0
14.0			14-16	24/0	23 14	18 12	Medium	No recovery.						14.0
18.0	_		16-18	24/10	5 13	7 12	Medium	SAND, F-VC; tra	ace F-M subangul	ar gravei; mode	rate brown.		0 ppm	16.0
18.0			18-20	24/10	4	5 8		Same as above	). 				0 ppm	18.0
20.0	_		20-22	24/8				B .	with laminations on and last 2 inche				0 ppm	20.0
22.0	_							coarser.	· · · · · · · · · · · · · · · · · · ·	··				22.0
24.0			24-26	24/4	14 22	16 24	Medium	SAND. F-VC; co	parser gravel than	above.			0 ppm	24.0
26.0			<u> </u>											26.0
28.0			29-31	24/2	36	26	Medium	Same as above.	. Driller claims cha	inge of material	at 31 feet.		0 ppm	28.0
30.0					18	14	_							30.0
32.0														32.0
34.0														34.0
36.0														36.0
PRO	POF	MOITS	IS USED	BORIN	G N	ETI	1OD	DEPTH R	EMARKS:			<del></del>		
TRAC	E	10	TO 20%		n Ca	asing		o.	FIELD INSTRUME					
SOM AND			TO 35% TO 50%	-					•	to 3 ft.				
		eilogC							NOTE: Geologic L	og Based on Pr in ASTM Standa			ING NO W-61B	).

	FU	1033 & 0 112124, 1110									CT/LOCATI	ON	BORING NO. MW-61B				
	$ \alpha $	SMC	UL	TING	<b>ENGI</b>	NE	ER	S	!	En	wirite Corp.		SHEET 2	OF	2		
	M	AN	CHI	STER	L, CT	)60	40		Thom	as	ton, Connect	ticut	JOB. NO.	91-580		<del></del> .	
<b>~</b>	DR	ILLE	R_I	O. Arb Dave Kor EILL RE	waleski		TIVE	S. Roc	helt	-		OCATION_ ELEVATION RTED 04/2	1/93 DATE F	INISHED	04/23/9	3	
								·	<del> </del>		V	WATER LEV	EL MEASU	REMENT	S		
	DR	اللاا	NG M	ETHOD	Spin C	asir	ng non	<del></del>		. [	DATE	MS. PT.	WATER AT	HR AFTER	COMPLE	TION	
				METHOD T. 140				FALL (I	N) 30	٠				. <del></del>		_	
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	Ŧ,	<b>3</b> €		7	SAMPL	E		γ	<u> </u>		SAM	PLE			FIFID	E	
	E C	2 A	NO.	DEPTH (ft)	PEN REC.		OWS/	SOIL DENSITY			DESCR		uscs	FIELD TESTING			
	38.0														38.0		
									SAND, F-C. SI	iigh	tly finer than ab	ove.			0 ppm	-	
																40.0	
											<del></del>	<del></del>		-			
													-			42.0	
	44.0 44-46 24/0 24 12											<del></del>	71,7			44.0	
	7 13							No recovery.			<del></del>		<u> </u>	-			
	46,0					l								1 1		46.0	
	48.0	48.0								· · · · · · · · · · · · · · · · · · ·		<del></del>	<del> </del>		48		
				49-51	24/12	14	12		SAND, F-M; tra	ace	VF sand.				0 ppm		
	50.0					9	14									50.0	
	500	$\dashv$				<u> </u>											
	52.0															52.0	
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}	PROPORTIONS USED BORING METHOD						IOD	DEPTH	RF	MARKS:	<del></del>	<del></del>	<del></del>		$\dashv$		
- 1	TRACE 0 TO 10%										FIELD INSTRUMENT= OVM						
- 1	υπ																
- 1	SOM	OME 20 TO 35%												•,			
ŀ	AND	D 35 TO 50%								TE. 61 1 1	0e <del>-</del> -		BOB	ING NO	<b>-</b> 1		
	perfil	\we	log0	4	<b></b>					NOTE: Geologic Log Based on Procedures Described in ASTM Standard D 2488.							

FUSS & ONEILL, INC. BORING NO. MW-61B ROCK CORE LOG OF CONSULTING ENGINEERS SHEET 1 PROJECT: Envirite Corp. 91-580 JOB NO. MANCHESTER, CT 06040 LOCATION: Thomaston, Ct 4/22/93 **Arbor Drilling** 4/22/93 DRILLING CO.: DATE STARTED: **DATE FINISHED:** Dave Kowaleski **GROUND ELEVATION:** DRILLER: NQ Core Barell/Roller Bit 2 CORING METHOD: CORE DIAMETER: FUSS & O'NEILL REPRESENTATIVE: R. Kovach COMMENTS DISCONTINUITIES LITHOLOGY CORE RUN LENGTH AND RECOVERY(%) 8 COTE LOBS ZONE DESCRIPTION TIGHTNESS ( MNEFOLOGY GLASSFICATION CEMENTATION HATCHESS NEWLMENDATON DEPTH ORIENTATION ALTERATION STAINING CORNCERVIEND SPACING RANARITY SACOTHNESS FILING COLOR GRANSIZE ALTERATION RORMATIONNAME WEATHERD STATE TEXTURE OF ENTATION GINHE 8 COPING FLUID LOSS WEXTERNS STRUCTURE SPACING Quartz, plagioclase, biotite, gneiss. Light to 97% 1 Tight to very tight fractures, 54 Average coring 7.6 100% semiplanar, 10-30 degree dips, very light gray (N7 - N8), biotite bands olive rate 6.5 min/ft. Smooth coring 3 close to moderately close gray to olive black (5Y 4/5 - 5Y 2/1), fine to O except for chatter spacing. Smooth to rough medium grained. No alterations. at 59 feet. surfaces. No alterations. Fresh weathering. Slight water loss at 59 feet - -58.8-58.9': Very loose fractures, planar to nonplanar, intersecting dips approximately 30-40 degrees, very close spacing. No alterations or filling. Fresh weathering. Biotite-rich fracture area tended to flake away as mica flecks or plates. 59.1': Tight fracture, semiplenar, 5 degree dip, rough surface, fresh weathering. No alteration or filling. ı 3.13 96% 61.6-68.4": Same as above. Average coring 7.1 Tight fractures, planar to 100% 68.4': Biotite, quartz, plagioclase, gneiss, rate 6.5 min/ft. semiplanar, 1-30 degree dips, schist. Olive black (5Y 2/1) with dark 2 Smooth coring close to moderately close 0 greenish gray (5GY 4/1 - 5G 4/1) zones. spacing. Smooth to rough surfaces. No alterations or filling. Medium to hard. Fresh weathering. Biotite Fresh weathering. laminations. 68.7

perfill/r-core3

FUSS & O'NEILL, INC.
CONSULTING
ENGINEERS

PROJECT/LOCATION	BORING NO.: MW-61B
Envirite Corp.	SHEET 1 OF 1
Thomaston, Connecticut	JOB NO.: 91-580

## DEERES ROCK QUALITY DESIGNATIONS

RUN NO.	RUN LENGTH (FT.)	RECOVERY LENGTH (FT.)	SUM LENGTH OF CORE PIECES >.328 ft. (100mm)	RQD(%) SUM LENGTH OF CORE 100 x PIECES > .328'/ RUN LENGTH	% RECOVERY RECOVERY LENGTH/ 100 x RUN LENGTH
1	7.6	7.6	7.4	97%	100%
2	7.1	7.1	6.8	96%	100%

### MONITOR WELL COMPLETION REPORT

**GENERAL INFORMATION** 

Town: Thomaston, Ct Site: Envirite Corporation

Monitoring Point I.D. No.: MW-61B Date of Completion: 4/23/93

DEP/WPC I.D.:

Monitoring Point Location: (relative to site features)

Drilling Contractor: Arbor Drilling Supervising Engineer/Geologist:

Well Construction Method: 4° Casing, Roller Bit S. Rochelt/R. Kovach

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground Surface Elevation (MSL): Well Depth Below Ground Surface: 69 ft.

Top of Steel Casing Elevation (MSL): Refusal: Yes No:

Top of PVC Casing Elevation (MSL): Screened Interval: 59 to 69 ft.

Length of Screen: 10 ft.

Length of Riser Pipe: 61 ft.

Screen Type: Schedule 40 PVC Screen Slot Size: 0.010\*

Filter Fabric: Yes No X Screen Packing: Yes No: X

Impermeable Backfill:

If Yes, Thickness:

Well Inside Diameter: 207° Material:

Grain Size:

Well Casing Material and Schedule: Bentonite Chips

Estimated K Screened Interval:

Schedule 40 PVC

Method of Well Development: Time Spent Developing:

Locking X or Threaded Cap Impermeable Backfill:

Volciay Grout

### **MONITOR WELL COMPLETION REPORT (Continued)**

### **BEDROCK WELLS**

Casing Length:

Water-Bearing Rock Unit: Gneiss

Water-Bearing Sections (Depths and Approximate Yields):

Length of Rock Cores: 7.6. 8.1 ft.

Diameter of Core Hole: 4 in.

Thickness and Depth of Impermeable Backfill: 52 to 58.6 ft.

O-ring Seals: Yes: X No:

### GEOLOGIC INFORMATION

Aquifer: Shallow Bedrock

Inferred Relationship to Plume; Within X Outside Edge

Watershed (Plume Discharge Watercourse): Branch Brook

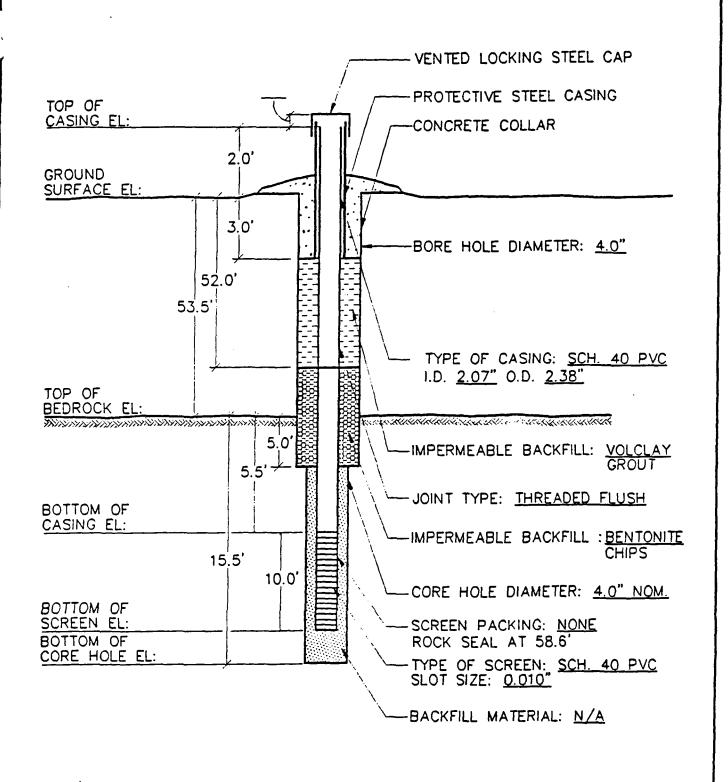
Aquifer Materials (Attach Boring Log):

Attach Maps and Plans Required of G.I.j. and G.4.

perfill\wcompl02

page 2 of 2

## WELL NO. MW-61B





FUSS & O'NEILL, INC.
CONSULTING ENGINEERS
MANCHESTER, CT 06040

## PROJECT/LOCATION

Envirite Corp.

SHEE JOB. I

BORI

M	AN	CH	EDIE	K, C1	U0U4(	) 		Th	omas	maston, Connecticut					
DI	RILLI	ER	O. Art Dave Ko	waleski	·	/E_R	. Ko	vach	_	BORING LI GROUND I DATE STA	_				
-			<del></del>		····			. <u></u>			VATER LE	VEL I			
			METHOD						<u> </u>	DATE	MS, PT.	WA			
			METHO! /T. <u>140</u>			_	11 /	IAI\ 30	[	04/28/93	PVC	1			
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E	0 4			SAMP	E					SAM					
1	CASING	NO.	DEPTH (ft)	PEN REC.	BLOW		OIL NSITY	DESCRIPTION							
_			"	1				-	e taken	0 to 43 feet.					
	3.0 43-45					1									
43.0		S-1	43-45	24/10	8 7		dium	SAND, F; II brown, wet		ttle M; trace silt; trace C and F gravel; di					
44.0											-				
45.0	s-2 45-47			24/16	5 6 12 1	I Me	dium			bove, except little (		le F gra			
46.0								weathered	rock fr	agment; dark ye	llowish brown				
47.0		S-3	47-49	24/14	6 8 9 11	I Mac	dium	SAND, F; III	ttie to s	some silt; micac	eous; dark ye	llowish			
48.0												·			
49.0		S-4	49-51	24/17	5 5	Med	lium	SAND, F; tri brown.	ace M;	trace to little si	t; micaceous;	dark ye			
50.0															
51.0		<b>\$-5</b>	51-52	9/9	5 66 (37			51-51.7': Sa 51.7': Split :				<del></del>			
52.0								52.5': BEDR	ROCK						
53.0															
PRO	POR	TION	SUSED	BORIN	G MET	HOD		DEPTH	RE	MARKS:					
TRAC	PACE 0 TO 10%				asing		-	0-11 FIELD INSTRUMENT= OVM Mode				ode			
	TTLE 10 TO 20%			Spin C	(4")	-	0 - 52 0.010° PVC Screen set 42 to 52 ft.								
SOMI AND	OME 20 TO 35% IND 35 TO 50%				·				- Bento Voici	onite Chips my Grout	37 to 39.5 ft. 2 to 37 ft.				
oerfill	\we	llog04	4						NOT	TE: Geologic Lo Described in	g Based on P n ASTM Stand				

### MONITOR WELL COMPLETION REPORT

GENERAL INFORMATION

Town: Thomaston, Ct Site: Envirite Corporation

Monitoring Point I.D. No.: MW-61D Date of Completion: 4/27/93

DEP/WPC I.D.:

Monitoring Point Location: (relative to site features)

Drilling Contractor: Arbor Drilling Supervising Engineer/Geologist:

Well Construction Method: 4" Casing, Roller Bit

Robert Kovach

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground Surface Elevation (MSL): Well Depth Below Ground Surface: 52 ft.

Top of Steel Casing Elevation (MSL): Refusal: Yes X No:

Top of PVC Casing Elevation (MSL): Screened Interval: 42 to 52 ft.

Length of Screen: 10 ft

Length of Riser Pipe: 44 ft.

Screen Type: Schedule 40 PVC Screen Slot Size: 0.010\*

Filter Fabric: Yes No X Screen Packing: Yes X No:

tf Yes. Thickness: 12.5 ft.

Well Inside Diameter: 207 Material: Morie Silica Sand

- Grain Size: #1

Well Casing Material and Schedule: Estimated K Screened Interval:

Impermeable Backfill:

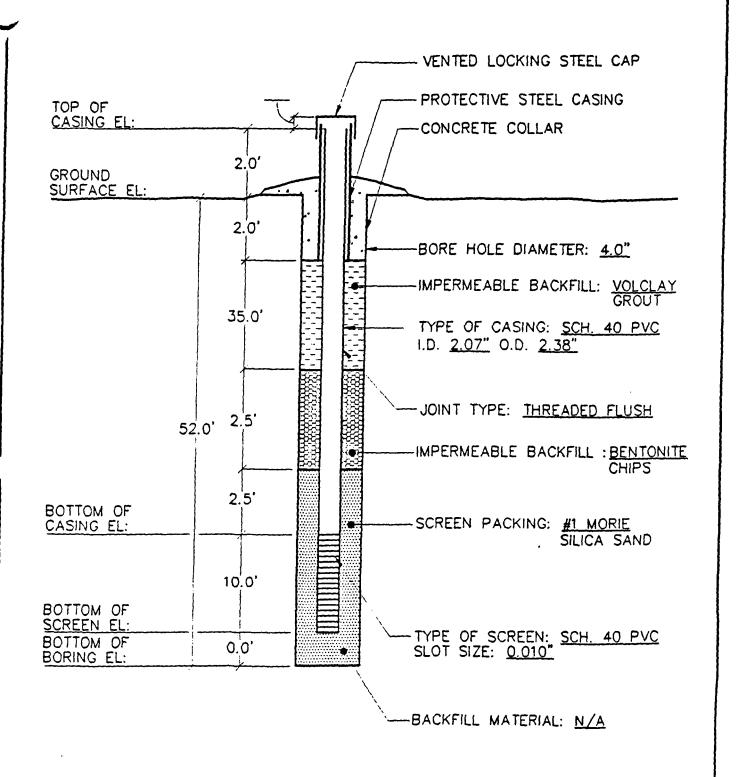
Schedule 40 PVC

Method of Well Development: Time Spent Developing;

Locking X or Threaded Cap Impermeable Backfill:

Volclay Grout

### WELL NO. MW-61D





WELL CONSTRUCTION DETAILS

MW-61D

ENVIRITE CORPORATION

HARTFORD CONNECTICUT

PROJ. NO. 91-580 DATE: JUNE 1993 SCALE: N.T.S

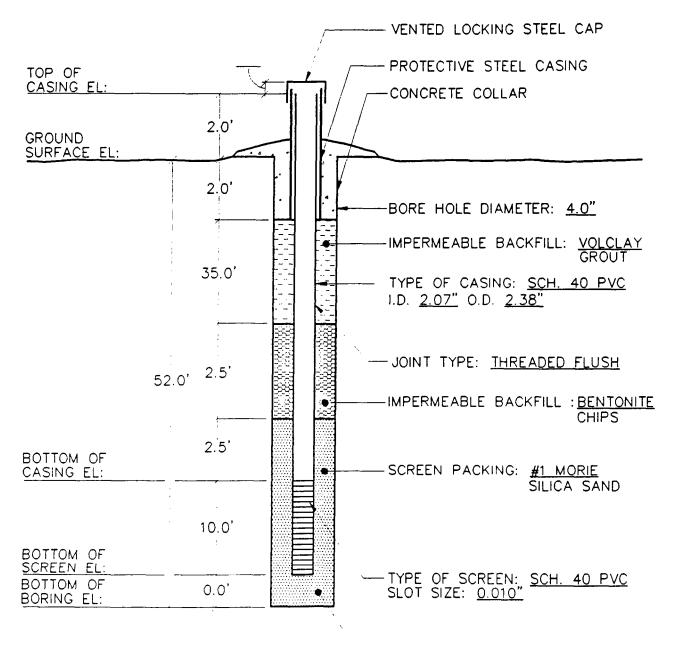
FUSS & O'NEILL, INC.								PRO.	IECT/LOCATI	BORING NO. MW-61D						
$ \alpha $	)NS	SUL	TING	ENGI	NEE	RS		Ε	Envirite Corp.		SHEET 1	OF _		_		
M	AN	CHI	ESTER	R, CT (	<b>)604</b> 0	i		Thoma	aston, Connec	ticut	JOB. NO.	91-580		<del></del>		
DF	RILLE	ER	O. Arb Dave Ko IEILL RE	waleski		Έ <u>R</u> .	Kov	ach	BORING L GROUND DATE STA	INISHED <u>04/27/93</u>						
					_					WATER LEV	EL MEASUR	REMENTS				
DF	RILLI	NG M	ETHOD	Spin C	asing				DATE	MS. PT.		HR AFTER		TION		
			METHOD T. <u>140</u>				IL (I	N) <u>30</u>	04/28/93	PVC	15.47		24.0			
_	- T	T		SAMPL	Ē				J			Τ	Τ	Τ_		
	CASING	NO.	DEPTH (ft)	PEN REC.	BLOW		SOIL		SAN DESCR	uscs	FIELD	E				
								No samples ta	ken 0 to 43 feet.							
							· · · · ·									
43.0		S-1	43-45	24/10		, ме	dium	SAND, F; little brown, wet.	M; trace silt; trac	e C and F grave	i; dark yellowish	SP	0.4 ppm	43.0		
44.0									<del></del>					44.0		
45.0		S-2	45-47	24/16	5 6	2 Me	dium	45-46': Same as above, except little silt. 46-47': SAND, F-M; trace to little C; little silt; little F gravel and weathered rock fragment; dark yellowish brown.					0.4 ppm	45.0		
46.0														46.0		
47.0	-	5-3	47-49	24/14	6 8	/ 4/ 0	dium	SAND, F; little	to some silt; mic	aceous; dark ye	llowish brown.	SM	0.4 ppm	47.0		
48.0		_				<u>-</u>			<del></del>	· · · · · · · · · · · · · · · · · · ·	<del></del>	<del> </del>		48.0		
					<u> </u>	$oldsymbol{\perp}$						<u> </u>				
49.0	•	S-4	49-51	24/17	5 5	Ме	dium	SAND, F; trace brown.	M; trace to little	silt; micaceous;	dark yellowish	SP-SM	0.2 ppm	49.0		
50.0								DIOWN.			<del></del>		<u> </u>	50.0		
51.0		S·5	51-52	9/9	5 68 (3*	+		51-51.7': Same 51.7': Split spo			·····	SP-SM		51.0		
52.0			<del>                                     </del>		00 (3	<del>'</del>		·			<del></del>	-		52.0		
					<u> </u>			52.5'; BEDRO	UK.		<u> </u>	<u> </u>				
53.0			<u> </u>											53.0		
											<del> </del>					
			-		ļ	-								<del>                                     </del>		
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PRO	PO	RTION	IS USE	BORIN	IG ME	ТНО	D		REMARKS:				····			
TRA	RACE 0 TO 10% Spin Casing (6')			$\neg$	0-11	FIELD INSTRUMENT = OVM Model 580B										
LITTLE 10 TO 20% Spin Casing (4")				0 - 52	0.010 F VO GOLDON SER 42 10 32 12											
SON			TO 35% TO 50%		<del></del>				#1 Morie Silica Sand 39.5 to 52 ft.  Bentonite Chips 37 to 39.5 ft.  Volclay Grout 2 to 37 ft.							
05 10 50%										ORING NO.						

Described in ASTM Standard D 2488.

MW-61D

perfil/wellog04

### WELL NO. MW-61D



-BACKFILL MATERIAL: N/A



WELL CONSTRUCTION DETAILS

MW-61D

ENVIRITE CORPORATION

HARTFORD

CONNECTICUT

PROJ. NO. 91-580 DATE: JUNE 1993 SCALE: N.T.S

### MONITOR WELL COMPLETION REPORT

**GENERAL INFORMATION** 

Town: Thomaston, Ct Site: Envirite Corporation

Monitoring Point I.D. No.: MW-61D Date of Completion: 4/27/93

DEP/WPC I.D.:

Monitoring Point Location: (relative to site features)

Drilling Contractor: Arbor Drilling Supervising Engineer/Geologist:

Well Construction Method: 4" Casing, Roller Bit

Robert Kovach

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground Surface Elevation (MSL): Well Depth Below Ground Surface: 52 ft.

Top of Steel Casing Elevation (MSL): Refusal: Yes X No:

Top of PVC Casing Elevation (MSL): Screened Interval: 42 to 52 ft. :

Length of Screen: 10 ft.

Length of Riser Pipe: 44 ft.

Screen Type: Schedule 40 PVC Screen Slot Size: 0.010

Filter Fabric: Yes No X Screen Packing: Yes X No:

If Yes, Thickness: 12.5 ft.

Well Inside Diameter: 207 Material: Morie Silica Sand

Grain Size: #1

Impermeable Backfill:

Bentonite Chips

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Well Casing Material and Schedule: Estimated K Screened Interval:

Method of Well Development: Time Spent Developing;

Locking X or Threaded Cap Impermeable Backfill: Volclay Grout

perfil/wcompl02 page 1 of 2

Schedule 40 PVC

### **MONITOR WELL COMPLETION REPORT (Continued)**

### **BEDROCK WELLS**

Casing Length: N/A

Water-Bearing Rock Unit: N/A

Water-Bearing Sections (Depths and Approximate Yields): N/A

Length of Rock Cores: N/A

Diameter of Core Hole: NA

Thickness and Depth of Impermeable Backfill: N/A

O-ring Seals: Yes: No:

### **GEOLOGIC INFORMATION**

Aquifer: Overburden

Inferred Relationship to Plume; Within X Outside Edge

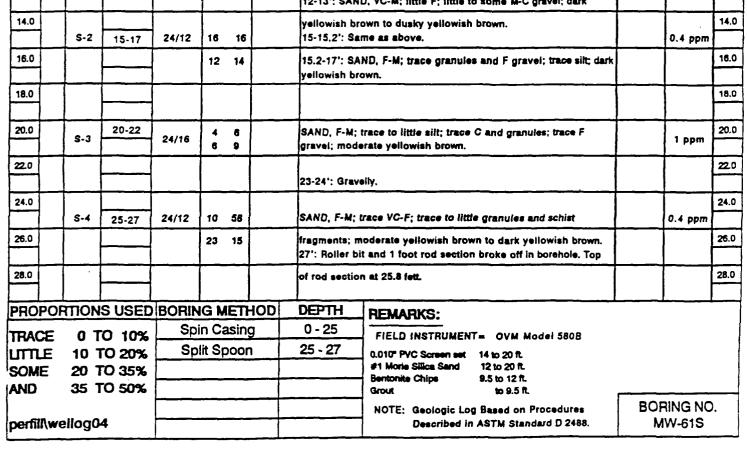
Watershed (Plume Discharge Watercourse): Branch Brook

Aquifer Materials (Attach Boring Log):

Attach Maps and Plans Required of G.I.j. and G.4.

perfill\wcompl02 page 2 of 2

F	JSS	& C	NEI	LL, IN	C.			PROJ	ECT/LOCATI	ON	BORING	10. MW	-61S		
a	NC:	SUL	TING	<b>ENGI</b>	NE	ER	S	E	nvirite Corp.		SHEET 1	OF			
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DF	RILLE	ER	O. Arb Dave Ko EILL RE	waleski		IVE	R. Kov	ach	BORING LOCATION						
								<del>7 </del>	WATER LEVEL MEASUREMENTS						
			ETHOD				IQ Core	<u> </u>	DATE	MS. PT.	WATER AT	HR AFTE	COMPLE	TION	
			VETHO						04/06/93	Ground	13.20				
HA	MM	ER W	T. <u>140</u>	ibs H	IAMN	1ER	FALL (I	N) <u>30</u>	04/29/93	Ground	13.00				
<b> </b>	<del></del>							<del>,</del>	<u> </u>	L	<u>1</u>	<del>,</del> -		<del></del>	
DBPIH (FT)	CASING	NO.	DEPTH (ft)	PEN REC.	E BLO	-	SOIL DENSITY		SAM DESCR			uscs	FIELD	HIT-BO	
0.0								1	en 0 to 11 feet. B		driven through			0.0	
2.0	-								· · · · · · · · · · · · · · · · · · ·			1		2.0	
<u> </u>	├	<u> </u>	<del> </del>		├				<del></del>			<del> </del>	ļ	<u> </u>	
4.0						!								4.0	
6.0	{													5.0	
8.0									··		· · · · · · · · · · · · · · · · ·			8.0	
100	-			<del> </del>	<del> </del>			·				<del> </del>		100	
10.0		S-1	11-13	24/18	7	30		11-12': SAND, F	-M: trace C: little	silt: dark vellor	wish brown to	}	0 ppm	10.0	
12.0			.1110		40	28		olive gray, moist						12.0	
								12-13': SAND, V	C-M; little F; little	to some M-C g	ravel; dark				
14.0		<b>\$-2</b>	45.45	24/12		16		yellowish brown 15-15,2': Same a		sh brown.			0.4 ppm	14.0	
16.0	-	3.2	15-17	24/12	16	1							0.4 ppm	16.0	
10.0					12	14		15.2-17": SAND, yellowish brown.	F-M; trace granu	nes and F grave	ei; wace sin; dark			10.0	
18.0														18.0	
												1			



### MONITOR WELL COMPLETION REPORT

**GENERAL INFORMATION** 

Town: Thomaston, Ct Site: Envirite Corporation

Monitoring Point I.D. No.: MW-61S Date of Completion: 4/28/93

DEP/WPC I.D.:

Monitoring Point Location: (relative to site features)

Length of Riser Pipe: 16 ft.

Screen Type: Schedule 40 PVC

Drilling Contractor: Arbor Drilling Supervising Engineer/Geologist:

Well Construction Method: 4" Casing, Roller Bit

Robert Kovach

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground Surface Elevation (MSL): Well Depth Below Ground Surface: 20 ft.

Top of Steel Casing Elevation (MSL): Refusal: Yes No: X

Top of PVC Casing Elevation (MSL): Screened Interval: 14 to 20 ft. :

Length of Screen: 61L

Filter Fabric: Yes No X Screen Packing: Yes X No:

Screen Slot Size:

0.010

If Yes, Thickness: 12 ft.

Well Inside Diameter: 207 Material: Morie Silica Sand

Grain Size: #1

Impermeable Backfill:

Bentonite Chips

Well Casing Material and Schedule:

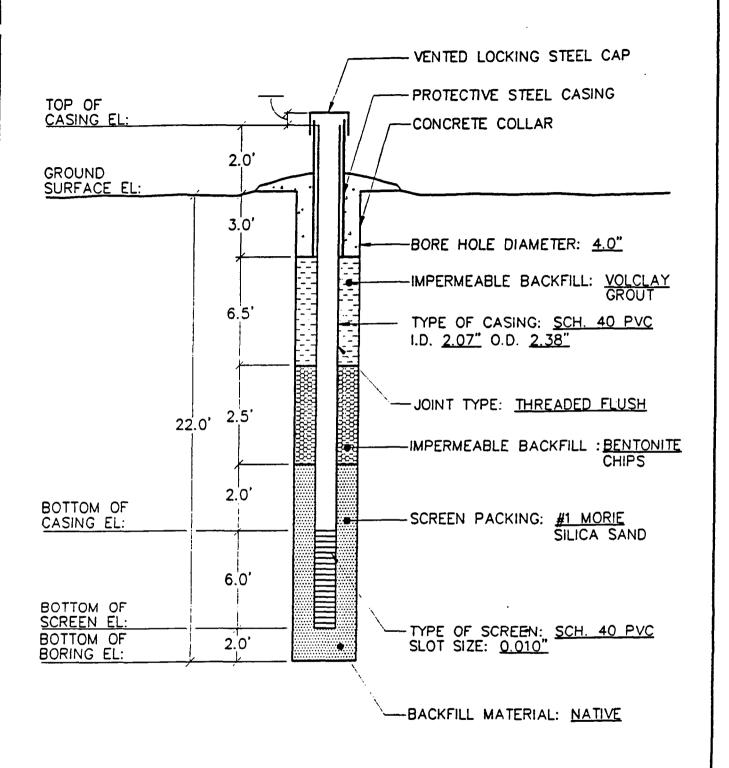
Estimated K Screened Interval:

Schedule 40 PVC

Method of Well Development: Time Spent Developing;

Locking X or Threaded Cap Impermeable Backfill: Volclay Grout

## WELL NO. MW-61S





WELL CONSTRUCTION DETAILS

MW-61S

ENVIRITE CORPORATION

HARTFORD

CONNECTICUT

PROJ. NO. 91-580 DATE: JUNE 1993 SCALE: N.T.S

MA DRI DRII FUS	NS ILLII LLE SS &	CHE	STER  O. Arbo Dave Kov	L, INCENGIA	NEE					BORING NO. MW-61B					
DRII DRII FUS	LLII LLE SS &	NG CC	o. Arbo		6040		<b>)</b>	E	OF 2						
FUS	LLE SS &	R	Dave Kov	or Drillin		,		Thoma	ston, Connect	icut	JOB. NO.	91-580			
	LLII		EILL REF	waleski PRESEN		/E _	S. Rocl	helt	BORING LOCATION GROUND ELEVATION DATE STARTED 04/21/93 DATE FINISHED 04/23/93						
1	LLII		<del></del>				<del></del> -		V	VATER LEV	ÆL MEASU	REMENT			
DRI		NG MI	ETHOD	Spin C	asing			<del></del>	DATE	MS. PT.	WATER AT	HR AFTER	COMPLE	TION	
				Split			PALL /11	VIV. 00	04/28/93	Ground	10.10	1	20.0		
HAN	MMI	=H W	1. 140	lbs H	AMME	:H 1	FALL (II	N) <u>30</u>							
_ 7,	o =			SAMPL	E							1		H G	
HI (F)	CASSIN blows/	NO.	DEPTH (ft)	PEN REC.	BLOW 6"	- /	SOIL DENSITY	]	SAMPLE DESCRIPTION USCS TEST						
								No samples tak	en 0 to 12 feet.						
											<del>'12</del> ,				
12.0	_		12-14	24/8	L	7	Loose	SAND, F-C, dar	k yellowish brown		0 ppm	12.0			
14.0			14-16	24/0	23 1	18	Medium	No гесочегу.		-		14.0			
16.0			16-18	24/10	5	,	Medium	SAND, F-VC; tra	ace F-M subangul	+	0 ppm	16.0			
18.0			18-20	24/10	4 :	5		Same as above	·	<del> </del>	<del></del>		0 ppm	18.0	
20.0			20-22	24/8	6 8	B			with laminations				0 ppm	20.0	
22.0	$\dashv$					$\dashv$		coarser.	n and last 2 inche	s of spoon ligh	iter color and	-	о ррш	22.0	
24.0	_		24-26		14 1	16						<del>                                     </del>		24.0	
26.0	_			24/4		24	Medium	SAND. F-VC; co	earser gravel than	above.	··		0 ppm		
	_					1								26.0	
28.0		:	29-31	24/2	36 2	6 1	Medium	Same as above	. Driller claims ch	ange of materi	al at 31 feet.		0 ppm	28.0	
30.0					18 1	14								30.0	
32.0						1					* <u> </u>			32.0	
34.0						┪						1		34.0	
36.0	-					+		<u> </u>						36.0	
DDC=	<u></u>		0 1:055	VDOS:::	10.15	Ţ	05	DCTT:		<del></del>			L		
	OPORTIONS USED BORING METHOD  ACE 0 TO 10% Spin Casing							0 50 -	REMARKS:						

0.010° PVC Screen set 59 to 69 ft. Bentonite Chips 52 to 58.6 ft.

to 3 ft.

NOTE: Geologic Log Based on Procedures

Described in ASTM Standard D 2488.

BORING NO.

MW-61B

Grout

Rock seal at 58.5 ft.

LITTLE

SOME

perfil/wellog04

AND

10 TO 20%

20 TO 35%

35 TO 50%

## FUSS & O'NEILL, INC. CONSULTING ENGINEERS MANCHESTER, CT 06040

AND

perfil/wellog04

35 TO 50%

### PROJECT/LOCATION

Envirite Corp.

BORING NO. MW-61B SHEET 2 OF 2

BORING NO.

MW-61B

JOB. NO. 91-580 Thomaston, Connecticut DRILLING CO. Arbor Drilling **BORING LOCATION** DRILLER Dave Kowaleski **GROUND ELEVATION** DATE STARTED 04/21/93 DATE FINISHED 04/23/93 FUSS & O'NEILL REPRESENTATIVE S. Rochelt WATER LEVEL MEASUREMENTS DRILLING METHOD Spin Casing DATE MS. PT. WATER AT HR AFTER COMPLETION SAMPLING METHOD Split Spoon HAMMER WT. 140 lbs HAMMER FALL (IN) 30 SAMPLE (FT.) CASING Blows/A SAMPLE FIELD USCS DEPTH PEN BLOWS/ SOIL TESTING NO. DESCRIPTION REC. DENSITY (ft) 38.0 38.0 39-41 24/8 7 10 SAND, F-C. Slightly finer than above. 0 ppm 40.0 40.0 7 12 42.0 42.0 44.0 44-46 44.0 12 24 24/0 No recovery. 13 46.0 46.0 48.0 24/12 SAND, F-M; trace VF sand. 14 12 0 ppm 49-51 50.0 50.0 9 14 52.0 52.0 PROPORTIONS USED BORING METHOD DEPTH **REMARKS:** FIELD INSTRUMENT = OVM TRACE 0 TO 10% UTTLE 10 TO 20% SOME 20 TO 35%

NOTE: Geologic Log Based on Procedures

Described in ASTM Standard D 2488.

FUSS & O'NEILL, INC.	PROJECT/LOCATION	BORING NO.: MW-61B
CONSULTING	Envirite Corp.	SHEET 1 OF 1
ENGINEERS	Thomaston, Connecticut	JOB NO.: 91-580

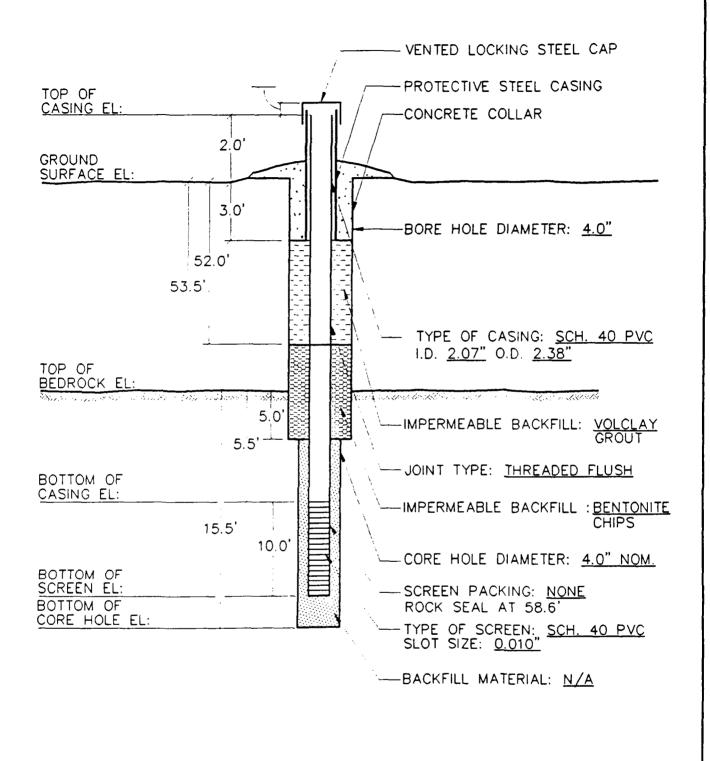
## DEERES ROCK QUALITY DESIGNATIONS

RUN NO.	RUN LENGTH (FT.)	RECOVERY LENGTH (FT.)	SUM LENGTH OF CORE PIECES >.328 ft. (100mm)	RQD(%) SUM LENGTH OF CORE 100 x PIECES > .328'/ RUN LENGTH	% RECOVERY RECOVERY LENGTH/ 100 x RUN LENGTH
1	7.6	7.6	7.4	97%	100%
2	7.1	7.1	6.8	96%	100%

#### FUSS & ONEILL, INC. ROCK CORE LOG MW-61B BORING NO. CONSULTING ENGINEERS SHEET **OF** 1 PROJECT: Envirite Corp. 91-580 JOB NO. MANCHESTER, CT 06040 LOCATION: Thomaston, Ct 4/22/93 DRILLING CO.: **Arbor Drilling** DATE STARTED: DATE FINISHED: 4/22/93 Dave Kowaleski DRILLER: **GROUND ELEVATION:** NQ Core Barell/Roller Bit 2 CORING METHOD: **CORE DIAMETER:** R. Kovach FUSS & O'NEILL REPRESENTATIVE: COMMENTS LITHOLOGY DISCONTINUITIES CORE RUN LENGTH AND RECOVERY(%) TESIS NSIPLMENIATION CORNCRATEAND SMCOTHNESS CORNGRUID LOSS 8 COPE LOSS ZONE MINERCLOGY CLASSFICATION COLOR GRANSIZE ALTERATION FORMATIONNAME CEMENTATION DESCRIPTION TIGHTNESS SPACING PLANATITY SMCOTHNESS FILING OFFENTATION ALTERATION STANNIG WEATHERNIG STRUCTURE HAPDNESS WEATH-BED STATE TEXTURE ORIENTATION SPACING GWPHIC 욙 54 Average coring 7.6 97% Tight to very tight fractures, Quartz, plagioclase, biotite, gneiss. Light to rate 6.5 min/ft. 100% semiplanar, 10-30 degree dips, very light gray (N7 - N8), biotite bands olive gray to olive black (5Y 4/5 - 5Y 2/1), fine to Smooth coring 3 close to moderately close except for chatter spacing. Smooth to rough medium grained. No alterations. at 59 feet. surfaces. No alterations, Fresh Slight water loss at weathering. 59 feet 58.8-58.9': Very loose fractures, planar to nonplanar, intersecting dips approximately 30-40 degrees, very close spacing. No alterations or filling. Fresh weathering. Biotite-rich fracture area tended to flake away as mica flecks or plates. 59.1': Tight fracture, semiplanar, 5 degree dip, rough surface, fresh weathering. No alteration or filling. ı 61.6 96% Tight fractures, planar to 7.1 61.6-68.4': Same as above. Average coring rate 6.5 min/ft. 100% semiplanar, t-30 degree dips, 68.4': Biotite, quartz, plagioclase, gneiss, 2 Smooth coring close to moderately close schist. Olive black (5Y 2/1) with dark o spacing. Smooth to rough greenish gray (5GY 4/1 - 5G 4/1) zones. surfaces. No alterations or filling. Medium to hard. Fresh weathering. Biotite Fresh weathering. laminations. 68.7

perfill/r-core3

### WELL NO. MW-61B





WELL CONSTRUCTION DETAILS
MW-61B

ENVIRITE CORPORATION

HARTFORD

CONNECTICUT

PROJ. NO. 91-580 DATE: JUNE 1993 SCALE: N.T.S.

#### MONITOR WELL COMPLETION REPORT

**GENERAL INFORMATION** 

Town: Thomaston, Ct Site: Envirite Corporation

Monitoring Point I.D. No.: MW-61B Date of Completion: 4/23/93

DEP/WPC I.D.:

Monitoring Point Location: (relative to site features)

Drilling Contractor: Arbor Drilling Supervising Engineer/Geologist:

Well Construction Method: 4\* Casing, Roller Bit

S. Rochelt/R. Kovach

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground Surface Elevation (MSL): Well Depth Below Ground Surface: 69 ft.

Top of Steel Casing Elevation (MSL): Refusal: Yes No:

Top of PVC Casing Elevation (MSL): Screened Interval: 59 to 69 ft.

Length of Screen: 10 ft.

Length of Riser Pipe: 61 ft.

Screen Type: Schedule 40 PVC Screen Slot Size: 0.010"

Filter Fabric: Yes No X Screen Packing: Yes No: X

If Yes, Thickness:

Well Inside Diameter: 207 Material:

Grain Size:

Impermeable Backfill: Bentonite Chips

Well Casing Material and Schedule: Estimated K Screened Interval:

Schedule 40 PVC

Method of Well Development: Time Spent Developing;

Locking X or Threaded Cap Impermeable Backfill:

**Volclay Grout** 

perfill/wcompl02 page 1 of 2

### MONITOR WELL COMPLETION REPORT (Continued)

### **BEDROCK WELLS**

Casing Length:

Water-Bearing Rock Unit: Gneiss

Water-Bearing Sections (Depths and Approximate Yields):

Length of Rock Cores: 7.6, 8.1 ft.

Diameter of Core Hole: 4 in.

Thickness and Depth of Impermeable Backfill: 52 to 58.6 ft.

O-ring Seals: Yes: X No:

### **GEOLOGIC INFORMATION**

Aquifer: Shallow Bedrock

Inferred Relationship to Plume; Within X Outside Edge

Watershed (Plume Discharge Watercourse): Branch Brook

Aquifer Materials (Attach Boring Log):

Attach Maps and Plans Required of G.I.j. and G.4.

perfill\wcompl02 page 2 of 2

FU	JSS	& C	YNEI	L, IN	C			PRO	CT/LOCATI	BORING NO. MW-62B					
$\alpha$	SMC	SUL	MING	ENGI	NE	ER	<b>S</b> [		En	virite Corp.		SHEET 1	OF		
M	AN	CHE	STER	L, CT	060	40		Thon	nasi	ton, Connec	ticut	JOB. NO.	91-560		
DF	ILLE	R	O. Arb David Ko	waleski		TVE	D. For	ntaine	BORING LOCATION East of landfill GROUND ELEVATION DATE STARTED 02/19/93 DATE FINISHED 02/22/93						
			· · ·						WATER LEVEL MEASUREMENTS						
DE		NG M	ETHOD	Hollow	/ Ste	m A	uger		}	DATE	MATER LEV				TION
SA	MPL	ING N	VETHO	Split	Spc	on		·-·.		DATE	MO. 71.	WATERAL	777.72	7 00 1117 [1	1701
HA	MM	ER W	T. <u>140</u>	ibs H	IAM	MER	FALL (	N) <u>30</u>	-  -						
	m =			SAMPL	E			Ţ <del></del>				L	T	1	HE CE
HI-BO	CASING	NO.	DEPTH (ft)	PEN REC.		)WS/	SOIL DENSITY		SAMPLE DESCRIPTION USCS FIEL TEST						
0.0			0-2	24/20	17 10	7 17				ittle C gravel. F organics; dark	rozen soil. yellowish brow	n (10YR 4/2).		ND	0.0
2.0								Thewed soil.			<del> </del>				2.0
4.0					<del>                                     </del>		!				<del> </del>	<del></del>	<del> </del>		4.0
6.0			5-7	24/18	2	4	<u> </u>	SAND, F, moderate yellowish brown (10YR 5/4). Well sorted.  Immature.					<del> </del>	ND	6.0
8.0								<u> </u>					<del> </del>		8.0
										·					
10.0			10-12	24/14	14	6 23		SAND, M; littl orange (10YR			rounded M grav	el; grayish		ND	10.0
12.0								Cobbie layer.							12.0
14.0				24/45		0.5		Sand M. and			Male several and a			210	14.0
16.0			15-17	24/16	40	28		color, wet.	- C, 11	odnava gravei;	little rounded o	obbie, momed		ND	16.0
18.0															18.0
20.0			20-22	_	18	60		SAND C.E. ri	ich h	intita: libla sile:	little cobble; du	els, vellowich			20.0
	_			24/8	100	- 1		brown (10YR			TIME CODDIE, OC			ND	
22.0		_						21': ROCK		_					22.0
24.0															24.0
	-					$\dashv$				<del>"</del>					_
200	ROPORTIONS USED BORING METHOD DE			DEPTH		<del></del>		<del></del>							
	RACE 0 TO 10% 7.8' OD HSA 0-15					MARKS:									
TITLE 10 TO 20% 4' OD Spin Casing 15-21					FIELD INSTRUMENT = OVM callbrated to 98.5 ppm isobutylene										
SOME 20 TO 35% Roller Bit				0.010" PVC Screen set 26 to 36 ft. Rock Seal 25.8 ft.  Bentonite Chips 18.5 to 25.8 ft.											
AND OF TO SOME MADE OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BEST OF THE BES				Bentonite Grout 0 to 18.5 ft.											
perfil/wellog04						NOTE: Geologic Log Based on Procedures BORING I Described in ASTM Standard D 2488. MW-62									

BORING NO. MW-62B FUSS & ONEILL, INC. ROCK CORE LOG **OF** CONSULTING ENGINEERS SHEET PROJECT: Envirite Corp. 91-580 JOB NO. MANCHESTER, CT 06040 LOCATION: Thomaston, Ct 2/22/93 2/22/93 DATE FINISHED: **Arbor Drilling** DATE STARTED: DRILLING CO.: Dave Kowaleski DRILLER: GROUND ELEVATION: 1.7 **NX Core** CORE DIAMETER: CORING METHOD: FUSS & O'NEILL REPRESENTATIVE: John Brogden LITHOLOGY DISCONTINUITIES COMMENTS CORE RUN LENGTH AND RECOVERY(X) TESS NSIPLMENDATION CORNGRATEMO SMCOTHNESS COTE LOSS ZONE USCAPION TEHNESS ( MARTICLOSY QLASSFIDATION CEMENTATION HARDNESS WEATHERED STATE CREVITION
ALIENTON
STANNG
WESTHEING
STRUCTURE SPACING FLANKTIY SACOTHESS FLLING COLOR GRANSZE ALTERITON FORMATONIMAE TEXTURE CRENTATION SPACING COPING PLUD LOSS Smooth coring. 2 25 9.5 5 94% Tight, close, somi planar, rough, Biotite, piegiociese, quertz, schiet, medium Little water loss. 9.0 fractures at 20 degrees. No filling, gray (N5), fine grained, so alteration, hard, Average 5.3 min/ft. 95% no staining, fresh weathering. freshly weathered. Very fine foliation or achistosity of minerals at 20 to 25 degrees. 27 Very tight, moderately close, non Quartz, piagiociase, biotite, schist, planar, very rough breaks at 25 alternating between light gray (N7) and dark degrees, no filling or staining, gray (N3) with banding, fine to medium grained, no alteration, hard, freshly fresh weathering. weathered. 34,5 Smooth coring. No discontinuities. Texture alternates between mice bands ッ 100 Little water loss. 2.5 Same as above. (1-5 mm) at 25 degrees and quartz plagiociase bands (1-20 mm) also at 25 Average of 7.5 125% min/fL degrees. 1 36.5 perfil/r-core3

FUSS & O'NEILL, INC.	PROJECT/LOCATION	BORING NO.: MW-62B
CONSULTING	Envirite Corp.	SHEET 1 OF 1
ENGINEERS	Thomaston, Connecticut	JOB NO.: 91-580

# DEERES ROCK QUALITY DESIGNATIONS

RUN NO.	RUN LENGTH (FT.)	RECOVERY LENGTH (FT.)	SUM LENGTH OF CORE PIECES >.328 ft. (100mm)	RQD(%) SUM LENGTH OF CORE 100 x PIECES > .328'/ RUN LENGTH	% RECOVERY RECOVERY LENGTH/ 100 x RUN LENGTH
1	9.5	9	8.9	94%	95%
2	2	25	2	100%	125%
		. 1 ·			
•					
		-		· · · · · · · · · · · · · · · · · · ·	
					-

#### MONITOR WELL COMPLETION REPORT

**GENERAL INFORMATION** 

Town: Thomaston, Ct Site: Envirite Corporation

Monitoring Point I.D. No.: MW-62B Date of Completion: 2/22/93

DEP/WPC I.D.:

Monitoring Point Location: (relative to site features)

Drilling Contractor: Arbor Drilling Supervising Engineer/Geologist:

Well Construction Method: Hollow Stem Auger, 4" Casing and D. Fontaine/J. Brogden

Roller Bit

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground Surface Elevation (MSL): Well Depth Below Ground Surface: 36 ft.

Top of Steel Casing Elevation (MSL): Refusal: Yes No:

Top of PVC Casing Elevation (MSL): Screened Interval: 26 to 36 ft.

Length of Screen: 10 ft

Length of Riser Pipe: 28 ft.

Screen Type: Schedule 40 PVC Screen Slot Size: 0.010\*

Filter Fabric: Yes No X Screen Packing: Yes No: X

If Yes, Thickness:

Well Inside Diameter: 207 Material:

Grain Size:

Impermeable Backfill:

Bentonite Chips

Well Casing Material and Schedule: Estimated K Screened Interval:

Schedule 40 PVC
Method of Well Development: Time Spent Developing;

Locking X or Threaded Cap Impermeable Backfill:

**Voiciay Grout** 

### MONITOR WELL COMPLETION REPORT (Continued)

### **BEDROCK WELLS**

Casing Length:

Water-Bearing Rock Unit: Gneiss

Water-Bearing Sections (Depths and Approximate Yields):

Length of Rock Cores: 9.5, 2 ft.

Diameter of Core Hole: 4 in.

Thickness and Depth of Impermeable Backfill: 18.5 to 25.8 ft.

O-ring Seals: Yes: X No:

### **GEOLOGIC INFORMATION**

Aguifer: Shallow Bedrock

Inferred Relationship to Plume; Within X Outside Edge

Watershed (Plume Discharge Watercourse): Naugatuck River

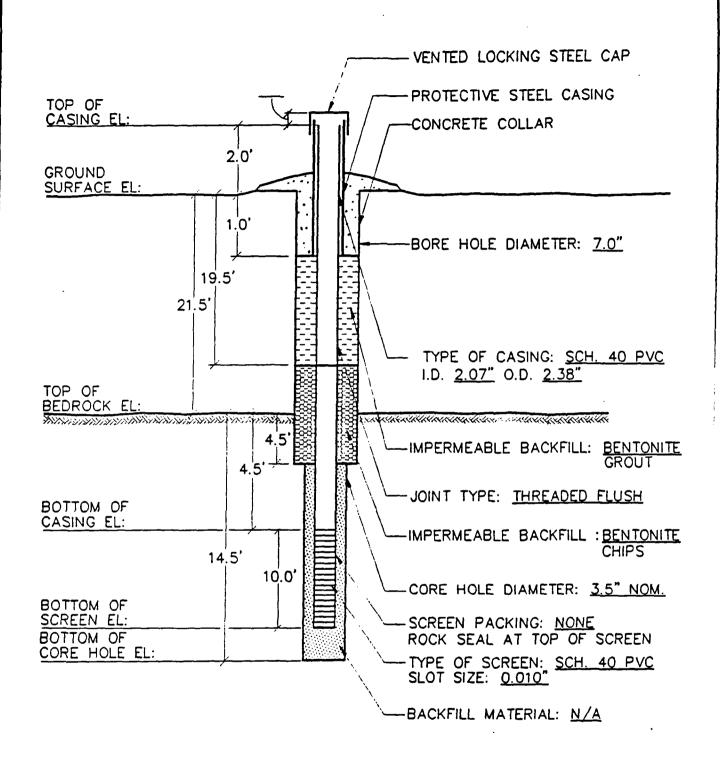
Aquifer Materials (Attach Boring Log):

Attach Maps and Plans Required of G.I.j. and G.4.

perfill\wcompl02

page 2 of 2

### WELL NO. MW-62B





WELL CONSTRUCTION DETAILS

MW-62B

ENVIRITE CORPORATION

HARTFORD CONNEC

HARTFORD CONNECTICUT
PROJ. NO. 91-580 DATE: JUNE 1993 SCALE: N.T.S

### FUSS & O'NEILL, INC. **CONSULTING ENGINEERS** MANCHESTER, CT 06040

PROJECT/LOCATION

Envirite Corp.

BORING NO. MW-62S SHEET 1 OF 2

JOB. NO. 91-580

Thomaston, Connecticut

DRILLING CO. Arbor Drilling DRILLER Dave Kowaleski FUSS & O'NEILL REPRESENTATIVE J. Brogden BORING LOCATION Adjacent to MW-62B **GROUND ELEVATION** 

DATE STARTED 02/23/93 DATE FINISHED 02/24/93

DRILLING METHOD Hollow Stem Auger SAMPLING METHOD Split Spoon HAMMER WT. 140 lbs HAMMER FALL (IN) 30

WATER LEVEL MEASUREMENTS DATE MS. PT. WATER AT | HR AFTER COMPLETION 14.40 01/23/93 Ground

I	<b>छ</b> €			SAMPL	<u>E</u>			j	SAMPLE					I
	CASING	NO.	DEPTH (ft)	PEN REC.	BLOWS		SOIL ENSITY		DESCRIPTION			USCS	FIELD TESTING	<b>E</b>
0.0			0-10					SAND, F-M; t (10YR 2/2), d	race C; trace F gra ry.	vel; dusky yeli	owish brown	SP		0.0
1.0														1.0
2.0											· · · · · · · · · · · · · · · · · · ·	<b>-</b>		2.0
3.0						+				<del></del>				3.0
4.0		-				+					<del></del>			4.0
5.0						-				<del>,</del>		<del>                                     </del>		5.0
5.0	-													6.0
7.0						-								7.0
8.0		· ·												8.0
9.0						-					···	-		9.0
0.0			10-12					SAND, F-M; tr	ace F gravel; light	brown (5YR 5/	5), dry.	SP	•	10.
1.0						1								11.
2.0		S-1	12-14	24/6	76 52 57 <b>6</b> 2		ente I		ce F and C; some F Frown (5YR 5/6), we	-	ubangular	SP	0 ppm	12.
3.0										·	-			13.
4.0		S-2	14-16	24/12	32 34 26 21				ngular; some F-M ( gments; moderate			SP	1.7 ppm	14.
RO	POR	MOIT	SUSED	BORIN	G ME	HO	D	DEPTH	REMARKS:	<del></del>				
RA(	CE .	O T	O 10%	4.2	5" ID H	SA		0 - 15	FIELD INSTRUM	ENT= OVM	<b>⊭</b> 3			
ш.			TO 2094	4" OD	Spin C	asir	na	15 - 21	0.010° EVC Screen		· <del>-</del>			

LITTLE 10 TO 20% 4' OD Spin Casing 15 - 21 SOME 16 - 21 20 TO 35% Roller Bit AND 35 TO 50% perfil/wellog04

0.010" PVC Screen set 19 to 21 ft.

#1 Silica Sand 18 to 21 ft Bentonite Chips 16 to 18 ft. Benotinte Grout 1 to 16 ft

NOTE: Geologic Log Based on Procedures Described in ASTM Standard D 2488. BORING NO. MW-62S

# FUSS & O'NEILL, INC. CONSULTING ENGINEERS MANCHESTER, CT 06040

#### PROJECT/LOCATION

Envirite Corp.

BORING NO. MW-62S SHEET 2 OF 2 JOB. NO. 91-580

Thomaston, Connecticut

DRILLING CO.	Arbor Drilling
DRILLER Dav	e Kowaleski
FUSS & O'NEILI	REPRESENTATIVE J. Brogden

BORING LOCATION Adjacent to MW-62B
GROUND ELEVATION
DATE STARTED 02/23/93 DATE FINISHED 02/24/93

DRILLING METHOD Hollow Stem Auger
SAMPLING METHOD Split Spoon
HAMMER WT. 140 lbs HAMMER FALL (IN) 30

SAMDLE

WATER LEVEL MEASUREMENTS

DATE MS. PT. WATER AT HR AFTER COMPLETION

	ᄕ	SAMPLE			SAMPLE LIGGO FIELD					
E (E)	CASIN	NO.	DEPTH (ft)	PEN REC.	BLOWS/	SOIL DENSITY	DESCRIPTION	uscs	FIELD TESTING	HE (F)
15.0										15.0
16.0		S-3	16-18	24/12	20 16 29 28		SAND, M; trace C; little F rounded gravel; light brown (5YR 5/6), wet.	SP	1.9 ppm	16.0
17.0										17.0
18.0		S-4	18-20	24/3	20 46 46 40	Dense	GRAVEL, F-M, angular to subrounded, moderate brown (5YR 4/4), wet.	G W	1.5 ppm	18.0
19.0										19.0
20.0		S-5	20-22	15/6	5 26 75 (3°)		Same as above, except F rich biotite sand and medium dark gray (N4), wet.	GW/SP	0.9 ppm	24
21.0							21': BEDROCK.			21.0
22.0							End of Boring at 21 ft.			22.0
$\exists$										
$\exists$										
_		}								

PROPORTIONS USED BORING METHOD DEPTH

TRACE 0 TO 10%

LITTLE 10 TO 20%

SOME 20 TO 35%

AND 35 TO 50%

perfil/wellog04

FIELD INSTRUMENT= OVM #3

**REMARKS:** 

NOTE: Geologic Log Based on Procedures
Described in ASTM Standard D 2488.

BORING NO. MW-62S

Fl	JSS	& C	'NEII	L, IN	C.			PROJ	ECT/LOCATION NECTOR NECTO PROPERTY CONTRACTOR NECTO PROPERTY CONTRACTOR NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PROPERTY NECTO PRO	ON	BORING	MW-	62B		
				ENGI		ER	s 🗀	E	nvirite Corp.	· · · · · · · · · · · · · · · · · · ·	SHEET 1	OF			
M	AN	CHE	STER	CT (	)604	Ю		Thomaston, Connecticut JOB. NO.					·	_	
DF	RILLE	:R[	David Ko	or Drillin waleski PRESEN		IVE	D. Fon	BORING LOCATION East GROUND ELEVATION DATE STARTED 02/19/93				ast of landfill  DATE FINISHED 02/22/93			
				<del></del>					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	VATER LEV	EL MEASUF	REMENT	S		
SA	MPL	JNG N	NETHOD	Hollow Split Ibs H	Spo	on		N) <u>30</u>	DATE	MS. PT.	WATER AT	HR AFTER	COMPLE	TION	
<del>-</del>	0 =			SAMPL	E			-	0414		1	T		1_	
	CASNO	NO.	DEPTH (ft)	PEN REC.	1	ws/	SOIL DENSITY		SAM DESCR			uscs	FIELD TESTING		
0.0	]		0-2	24/20	17 10	7 17		•	; little C gravel. F S, organics; dark		n (10YR 4/2).		ND	0.0	
2.0								Thawed soil.		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			2.0	
4.0			5-7	24/18	2	1		SAND, F, moderate yellowish brown (10YR 5/4). Well sorted.					ND	4.0	
6.0					2	4		immature.		<del></del>				6.0	
8.0												<del>- </del>		8.0	
10.0			10-12	24/14	4 14	6 23		SAND, M; little i	rounded to semi	rounded M grav	el; grayish		ND	10.0	
12.0								Cobble layer.						12.0	
14.0														14.0	
16.0		·	15-17	24/16	40	44		color, wet.	rounded gravel;	little rounded (	cobble; mottled		ND	16.0	
18.0				_			_							18.0	
20.0			20-22	24/8	18	60		SAND, C-F; rich	biotite; little silt;	little cobble; du	isky yellowish		ND	20.0	
22.0	-			24/0	100	(37)		brown (10YR 2/2	2).		· · · · · · · · · · · · · · · · · · ·			22.0	
24.0								21': ROCK.	<del>.</del>		<del></del>	-		24.0	
								<del></del>			<del></del> -				
								· · <del> · · · · · · · · · · · · · · · · · · </del>							

7.8" OD HSA 0 - 15 TRACE 0 TO 10% 10 TO 20% 4º OD Spin Casing 15 - 21 ППТЕ SOME 20 TO 35% Roller Bit AND 35 TO 50% NQ Core Barrel perfil/wellog04

FIELD INSTRUMENT = OVM calibrated to 98.5 ppm isobutylene

Cold temperature may inhibit volitability.

0.010" PVC Screen set 26 to 36 ft.

Bentonite Chips 18.5 to 25.8 ft. Bentonite Grout 0 to 18.5 ft.

NOTE: Geologic Log Based on Procedures Described in ASTM Standard D 2488. BORING NO. MW-62B

Rock Seal 25.8 ft.

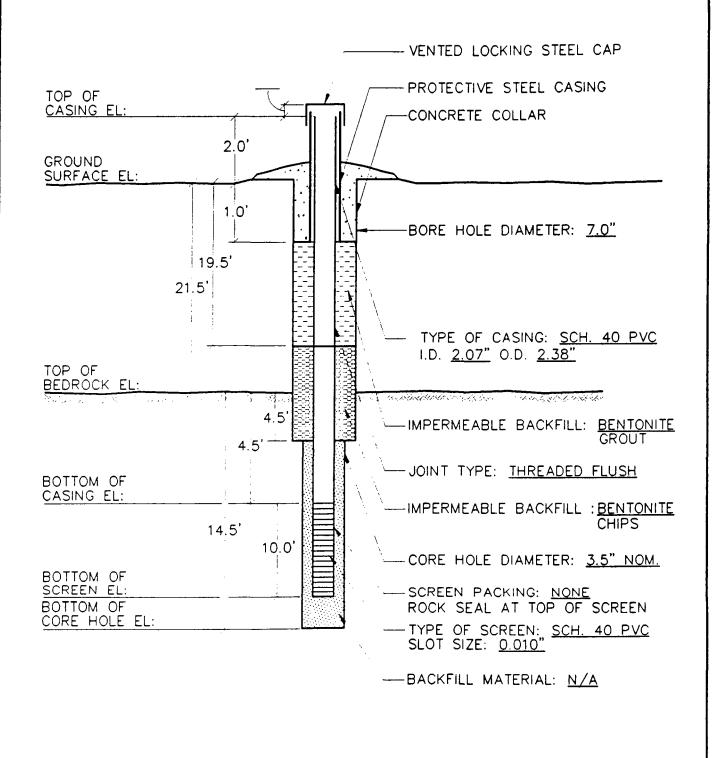
#### ROCK CORE LOG MW-62B FUSS & ONEILL, INC. BORING NO. CONSULTING ENGINEERS SHEET PROJECT: Envirite Corp. 91-580 MANCHESTER, CT 06040 JOB NO. LOCATION: Thomaston, Ct **Arbor Drilling** 2/22/93 DATE FINISHED: 2/22/93 DRILLING CO.: DATE STARTED: Dave Kowaleski DRILLER: GROUND ELEVATION: **NX Core** 1.7 CORING METHOD: CORE DIAMETER: FUSS & O'NEILL REPRESENTATIVE: John Brogden COMMENTS LITHOLOGY DISCONTINUITIES CORE RUN LENGTH AND RECOVERY(%) TESS NEFUMENTATION CORNERATE AND SMOOTHNESS g MNEPOLOGY CLASSIPCATION COLOR GRANISZE ALTERATION FORMATIONNAME CEMENTATION HAPPINESS WEATHERED STATE TEXTURE ORIENTATION SPACING TESCRETION TIGHTNESS OF SPICING A PLANKTLY SACOTHNESS COTE LOBS ZONE OPENIATION ALTERATION STANNIG WESTHERING STRUCTURE FINAL PER GRAFIE 8 CORNGRUDIOSS FILING 2 Biotite, plagiociase, quartz, schiet, medium Smooth coring. 9.5 .5' 94% Tight, close, semi planar, rough, fractures at 20 degrees. No filling, gray (N5), fine grained, no alteration, hard, Little water loss. 9.0 Average 5.3 min/ft. 95% 0 no staining, fresh weathering. freshly weathered. Very fine foliation or ٥ schistosity of minerals at 20 to 25 degrees. 0 27 Quartz, plagioclase, biotite, schist, Very tight, moderately close, non planar, very rough breaks at 25 alternating between light gray (N7) and dark degrees, no filling or staining, gray (N3) with banding, fine to medium fresh weathering. grained, no alteration, hard, freshly weathered. **34.**5 Smooth coring. 100 No discontinuities. Texture alternates between mica bands Little water loss. 2.5' Same as above. (1-5 mm) at 25 degrees and quartz Average of 7.5 125% plagioclase bands (1-20 mm) also at 25 min/ft. degrees. 36.5 perfill/r-core3

FUSS & O'NEILL, INC.	PROJECT/LOCATION	BORING NO.:	:	MW-62B		
CONSULTING	Envirite Corp.	SHEET 1	OF	1		
ENGINEERS	Thomaston, Connecticut	JOB NO.:	91	-580		

### DEERES ROCK QUALITY DESIGNATIONS

RUN NO.	RUN LENGTH (FT.)	RECOVERY LENGTH (FT.)	SUM LENGTH OF CORE PIECES >.328 ft. (100mm)	RQD(%) SUM LENGTH OF CORE 100 x PIECES > .328'/ RUN LENGTH	% RECOVERY RECOVERY LENGTH/ 100 x RUN LENGTH
1	9.5	9	8.9	94%	95%
2	2	25	2	100%	125%
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			1		

### WELL NO. MW-62B





WELL CONSTRUCTION DETAILS

MW-62B

ENVIRITE CORPORATION

HARTFORD

CONNECTION

PROJ. NO. 91-580 DATE: JUNE 1993 SCALE: N.T.S.

#### MONITOR WELL COMPLETION REPORT

GENERAL INFORMATION

Town: Thomaston, Ct Site: Envirite Corporation

Monitoring Point I.D. No.: MW-62B Date of Completion: 2/22/93

DEP/WPC I.D.:

Monitoring Point Location: (relative to site features)

Drilling Contractor: Arbor Drilling Supervising Engineer/Geologist:

Well Construction Method: Hollow Stem Auger, 4" Casing and D. Fontaine/J. Brogden

Roller Bit

WELL INFORMATION (ELEVATIONS TO NEAREST 0.1 FEET)

Ground Surface Elevation (MSL): Well Depth Below Ground Surface: 36 ft.

Top of Steel Casing Elevation (MSL): Refusal: Yes No:

Top of PVC Casing Elevation (MSL): Screened Interval: 26 to 36 ft.

Length of Screen: 10 ft.

Length of Riser Pipe: 28 ft.

Screen Type: Schedule 40 PVC Screen Slot Size: 0.010

Filter Fabric: Yes No X Screen Packing: Yes No: X

If Yes, Thickness:

Well Inside Diameter: 207 Material:

Grain Size:

Impermeable Backfill:

Bentonite Chips

Well Casing Material and Schedule: Estimated K Screened Interval:

Schedule 40 PVC

Method of Well Development: Time Spent Developing;

Locking X or Threaded Cap Impermeable Backfill:

**Voiclay Grout** 

perfill\wcompl02

page 1 of 2

### MONITOR WELL COMPLETION REPORT (Continued)

### **BEDROCK WELLS**

Casing Length:

Water-Bearing Rock Unit: Gneiss

Water-Bearing Sections (Depths and Approximate Yields):

Length of Rock Cores: 9.5, 2 ft.

Diameter of Core Hole: 4 in.

Thickness and Depth of Impermeable Backfill: 18.5 to 25.8 ft.

O-ring Seals: Yes: X No:

### GEOLOGIC INFORMATION

Aquifer: Shallow Bedrock

Inferred Relationship to Plume; Within X Outside Edge

Watershed (Plume Discharge Watercourse): Naugatuck River

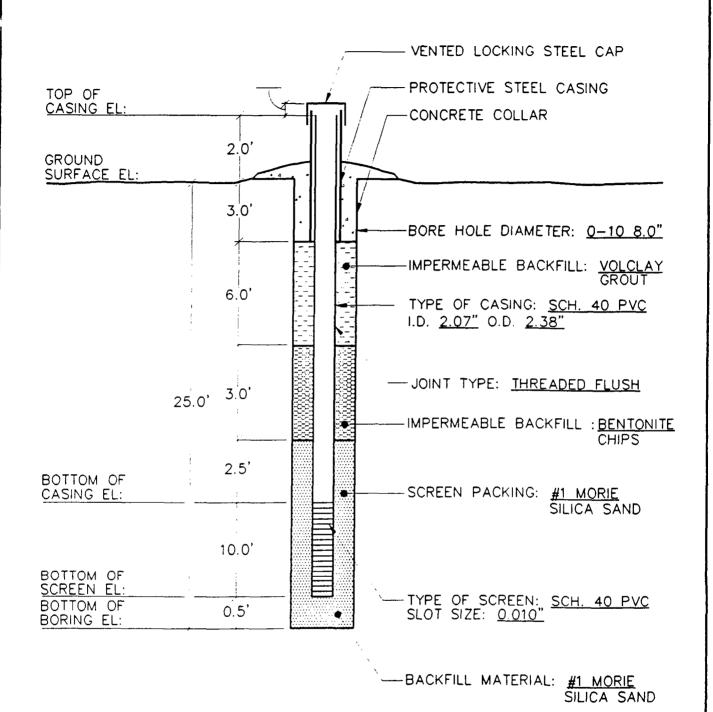
Aquifer Materials (Attach Boring Log):

Attach Maps and Plans Required of G.I.j. and G.4.

perfill\wcompl02

page 2 of 2

### WELL NO. MW-63S





WELL CONSTRUCTION DETAILS

MW-63S

ENVIRITE CORPORATION

HARTFORD

CONNECTICUT

PROJ. NO. 91-580 DATE: JUNE 1993 SCALE: N.T.S

#### MONITOR WELL COMPLETION REPORT

**GENERAL INFORMATION** 

Town: Thomaston, Ct Site: Envirite Corporation

Monitoring Point I.D. No.: MW-63S Date of Completion: 2/4/93

DEP/WPC I.D.:

Monitoring Point Location: (relative to site features)

Drilling Contractor: Arbor Drilling Supervising Engineer/Geologist:

Well Construction Method: Hollow Stem Auger, 4" Casing and Robert Kovach

Well Construction Method: Roller Bit

WELL INFORMATION (ELEVATIONS TO NEAREST 0,1 FEET)

Ground Surface Elevation (MSL): Well Depth Below Ground Surface: 24.5 ft.

Top of Steel Casing Elevation (MSL): Refusal: Yes No: X

Top of PVC Casing Elevation (MSL): Screened Interval: 14.5 to 24.5 ft.

Length of Screen: 10 ft.

Length of Riser Pipe: 16.5 ft.

Screen Type: Schedule 40 PVC Screen Slot Size: 0.010

Filter Fabric: Yes No X Screen Packing: Yes X No:

If Yes, Thickness: 125 ft.

Well Inside Diameter: 207 Material: Morie Silica Sand

Grain Size: #1

Impermeable Backfill: Bentonite Chips

Well Casing Material and Schedule: Estimated K Screened Interval:

Schedule 40 PVC

Method of Well Development: Time Spent Developing:

Locking X or Threaded Cap Impermeable Backfill:

Voiciay Grout

### **MONITOR WELL COMPLETION REPORT (Continued)**

### **BEDROCK WELLS**

Casing Length: NA

Water-Bearing Rock Unit: N/A

Water-Bearing Sections (Depths and Approximate Yields): N/A

Length of Rock Cores: N/A

Diameter of Core Hole: NA

Thickness and Depth of Impermeable Backfill: N/A

O-ring Seals: Yes: No:

### **GEOLOGIC INFORMATION**

Aquifer: Overburden

Inferred Relationship to Plume; Within Outside X Edge

Watershed (Plume Discharge Watercourse): Branch Brook

Aquifer Materials (Attach Boring Log):

Attach Maps and Plans Required of G.I.j. and G.4.

perfill/wcompl02 page 2 of 2

# FUSS & O'NEILL, INC. **CONSULTING ENGINEERS** MANCHESTER, CT 06040 DRILLING CO. Arbor Drilling

PROJECT	/LOCATION
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Envirite Corp.

BORING NO. MW-63S SHEET 1

OF 2

Thomaston, Connecticut

JOB. NO. <u>91-580</u>

DRILLER D. Kowaleski, L. Gammie FUSS & O'NEILL REPRESENTATIVE R. Kovach

BORING LOCATION Northeast corner of property **GROUND ELEVATION** 

DATE STARTED 02/03/93 DATE FINISHED 02/04/93

WATER LEVEL MEASUREMENTS

DRILLING METHOD Hollow Stem Auger/Spin Casing SAMPLING METHOD Split Spoon HAMMER WT. 140 lbs HAMMER FALL (IN) 30

WATER AT HR AFTER COMPLETION DATE MS. PT. 02/03/93 Ground 10.50 14.50 02/04/93 Ground 1.0 02/04/93 PVC 16.45

Ŧ	(FT.) CASING blows/ft			SAMPL	<u>E</u>		CAMPIE			_
	CASIN	NO.	DEPTH (ft)	PEN REC.	BLOW 6"	S/ SOIL DENSITY	SAMPLE DESCRIPTION	USCS	FIELD TESTING	HE E
0.0		S-1	0-2	24/12	1	6	SILT; trace to little F-M sand; little gravel and cobbles; dark brownish gray.		0 ppm	0.
1.0										1.
2.0										2.
3.0								ļ		3.0
4.0								-		4.0
5.0		\$-2	5-7	24/16	6 1- 26 3	1	SAND, F-M; little C; little to some silt; little gravel and cobbles; dark yellowish brown to dusky yellowish brown.		0 ppm	5.
6.0										6.
7.0										7.
8.0										8.1
9.0										9.0
10.0				<del>-</del>			10-11.5': BOULDER. Water added for roller bit.			10
11.0		S-3	11.5-	23/9	3 2	16	SAND, F; trace C, and M; trace mica flakes; some silt; dark		0 ppm	11
12.0			13.5		88 (5"		yellowish brown, wet. Bouldery.		7 - 7 - 7	12
13.0										13.
14.0							14': End of boulders.			14.

PROPO	RTIONS USED	BORING METHOD	DEPTH
TRACE	0 TO 10%	HSA	0 - 10.5
LITTLE	10 TO 20%	Spin Casing	10 - 25
SOME	20 TO 35%	Split Spoon	25 - 27
AND	35 TO 50%		
perfill\w	ellog04		

#### **REMARKS:**

FIELD INSTRUMENT = OVM Model 580B (ppm isobutylene)

0.010" PVC Screen set 14.5 to 24.5 ft.

#1 Morie Sand 12 to 25 ft. Bentonite Chips 9 to 12 ft. Voiciay Grout 3 to 9 ft

NOTE: Geologic Log Based on Procedures Described in ASTM Standard D 2488. BORING NO. MW-63S

# FUSS & O'NEILL, INC. **CONSULTING ENGINEERS** MANCHESTER CT 06040

### PROJECT/LOCATION

Envirite Corp.

BORING NO. MW-63S OF 2 SHEET 2 JOB. NO. 91-580

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					_					٧	VATER LEV	EL MEASUR	EMENT	S	
				Hollow Split			uger/Sp	in Casing	n Casing DATE MS. PT. WATER AT					COMPLE	TION
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Ξ.	Ω €			SAMPL	E					SAM	DI E			EIEI D	=_
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16.0															16.0
17.0		S-5	17-19	24/13	7 10	9 9		Same as abov	ve, ex	cept gravel su	ibangular to su	brounded.		0 ppm	17.0
18.0															18.0
19.0		S-6	19-21	24/8	6 7	8 7		Same as abov	ve.					0 ppm	19.0
20.0						-			. •.						24
21.0		S-7	21-23	24/14	8	7 13				; dark yellowis owish brown at		er of F sand and		0 ppm	21.0
22.0										****	*************				22.0
23.0		S-8	23-25	24/14	6 12	9 16	-	23-23.5': Sam 23.5-25': SAN			silt; trace F s	abrounded		0 ppm	23.0
24.0								gravel; dark y	yellow	rish brown.					24.0
25.0		S-9	25-27	24/16	22 15	,		25-25.5': Sam 25.5-27': SAN			me silt; trace M	subrounded		0 ppm	25.0
26.0								mixed gravel;	; mode	erate brown (5	YR 4/4).				26.0
27.0										End of Borin	g at 27 ft.				27.0
							-			· · · · ·					
PRO	POF	RTION	S USE	BORIN	IG M	IETH	HOD	DEPTH	DE	MARKS:	<del></del>				L
TRAC	CE	σ Τ	O 10%								ENT= OVM M	ode! 580B			

SOME 20 TO 35% 35 TO 50% AND perfil/wellog04

NOTE: Geologic Log Based on Procedures Described in ASTM Standard D 2488.

BORING NO. MW-63S

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

# ENVIRITE THOMASTON, CONNECTICUT

Boring No	١.	L	-01
Page	1	of	1
File No.		413	02.3
Chkd. By:			MB

Boring No.

Bo	oring	g Co	. GZ	A DRILL	ING				Casing	Sampler		Grou	ndwat	er R	eadings	
والموس	ren	nan		Ron Ho	lman		— Тур	c	HSA	S.S.	Date	e Time	De	pth	Casing	Stab. Time
] g	ΖĄ					• " •	I.D.	/O.D.	2-1/4"	2" O.D.						
	eo£ :p.	nviro	onmen I	ital Telena H	ollauer		Han	nmer Wt.		140 LB.						
Da	ate S	Start	5/25	/94	End	5/25/94	—— Han	nmer Fall		30"						
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G	s.Ei	ev.			Datum	1										
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T H	i	N W G S	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data		Description &	& Classification		Descriptio	n	K S		
	L		Α	24/12	0-2	2-4	120	Top 4":	TOPSOIL 8": Fine to me	dium SAND		0.5TOPS	OIL	1.		
	L			ļ		5-4		trace Sil	t Time to me	ordin or E 12,		SANI 3.0'	)			
	L	_		<u></u>				]				3.0'				
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	5					<u> </u>										_
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c m			I. Soi N	l samples Iodel PI-:	field scree 101, photoi	ned for vo	latile organic detector (PII	compound). PID va	ds (VOCs) with alues represent	h a 11.7 eV portal meter response in e sent to laborato	ole HNu 1 parts per	million				
a r			a	nalysis. N	ND indicate	s None De	etected above	ipie. """ i backgrou	ndicates sample ind.	e sent to laborato	ry for add	itional				
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#### GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists Boring No. L-02 ENVIRITE THOMASTON, CONNECTICUT Page of 2 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 41302.3 File No. **JMB** Chkd. By: Soring Co. GZA DRILLING Casing Sampler Groundwater Readings Time Ron Holman Туре **HSA** S.S. Date Depth Casing Stab. Time foreman. 2" O.D. GZA GeoEnvironmental Rep. Helena I.D./O.D. 2-1/4" Helena Hollauer Hammer Wt 140 LB. Date Start 5/24/94 End 5/24/94 Hammer Fall 30" See Plan Location Other GS.Elev. Datum C B S L Sample Information Sample Equipment Installed Stratum N W Blows/ Description & Classification Description Н No. (Ft.) Reć Test Data Top 4": TOPSOIL Boitom 6": Medium dense, fine to medium SAND, trace Silt 24/12 2-5 55 0.5 TOPSOIL 1 15-15 SILTY 5.0' Medium stiff, orange, brown, black SLUDGE, Rock fragments В 24/2 5-7 4-2 4 NO EQUIPMENT INSTALLED 39-12 10 C 24/22 17\* 10-12 1-1 Soft, orange, brown, black SLUDGE 2-8 **SLUDGE** 15 Top 2": Soft, black, green SLUDGE Middle 12": Soft, red, orange SLUDGE D 24/24 15-17 1-1 43\* 1-1 Bottom 10": Soft, brown and white SLUDGE 20 Top 10": Soft, red, orange SLUDGE Bottom 10": Soft, turquoise SLUDGE E 24/20 20-22 1-1 46\* 1-1 Soft, red, orange, black, brown, and white mottled SLUDGE F 24/24 25-27 1-1 60\* 1-6

R e m a r k

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

Soil samples field screened for volatile organic compounds (VOCs) with a 11.7 eV portable HNu
Model PI-101, photoionization detector (PID). PID values represent meter response in parts per million
(ppm) above background values for each sample. "\*" indicates sample sent to laboratory for additional
analysis. ND indicates None Detected above background.

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e n a r	k		1. Soil M (p ar	samples lodel PI- pm) abo nalysis. N	field scree 101, photoi we backgro ND indicate	ened for vo ionization of ound values es None D	platile organic detector (PID s for each sam etected above	compound )). PID va nple. *** ii e backgrou	ds (VOCs) willues represer ndicates samp ind.	ith a 11.7 ont meter reple sent to	eV portable esponse in j laboratory	e HNu parts per y for addit	million tional				
fi	trai ead act	cific ings ors 1	ation have than t	lines been ma hose pr	represent ide at til esent at	t approximes and the time	imate bound under condi e measureme	daries be itions st ents were	etween soil tated. Flu e made.	l types, uctuation	transitions of gro	ons may oundwate	be gradua r may occu	l. I	Jate e to	r level	

Boring No.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

# ENVIRITE THOMASTON, CONNECTICUT

Boring No	0.	L	-03
Page _	1	of	1
File No.		413	02.3
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	_		DRILL					Casing	Sampler				_	adings	
1	man		Al Augu	stine	<del></del>	Тур	_	HSA	S.S	Date	Time	Dep	th	Casing	Stab. Time
GZ/ Geo	4 Envir	onmen	tal				/O.D	2-1/4*	2" O.D.						
Rep			ClareAn				nmer Wt.		140 LB.						
Date	e Star	t <u>5/13</u> ,		End_	5/13/9		nmer Fall_		30"			<u> </u>		<u> </u>	
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D P T H	N W G S	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data	İ	Description of	& Classification	_	Description	n ]	K S		_
		Α	24/7	0-2	2-19	18*	Top 2": T	OPSOIL	a to medium		0.5TOPS	OIL	1.		_
					10-100		SAND, tra	": Brown, fine ace Gravel	e to medium				١		
							]						I		
							]								
5			_				]				SAND		-		
,		В	24/0	5-7	6-9	NA	No recove	ry			SAMD	·	- 1		
}					14-9		]							NO EQI	UIPMENT ALLED
							]					1	١	11451	ALLED
													-		
.,							Ì				10.0'				
10		С	24/24	10-12	2-1	5*	Soft, black	k, tan and whi	ite SLUDGE						
					1-2		}					1	-		
1	-						1					Ī	- [		
							1						ı		
							1				SLUDG	Е	-		
15		D	24/24	15-17	1-1	13*	Soft, black	c-orange with	flecks of						_
					1-2		white SLL	DGE							
							1					1			
							ĺ								
												l	2.		
20		Е	9/6	20-20.7	1-100/3	6 *	Black SLU	JDGE		i	21.0'	\ \	1		
		F	24/4	21-23	16-19	4	1				SAND A	VD.	١		
					14-13		Very dens	e, grey-brown	n, fine to OCK FRAGMENTS		GRAVE 23.0'	L	ļ		
							meaium S	AND and RO	JCK PKAGMENIS		END O	F	-		
											EXPLORA	TION			
25													-		_
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						·						f	ļ		
												1	1		
R													_		
c m		1. Soil	samples lodel PI-	field screen 101, photoic	ned for vol onization o	latile organic letector (PII	compound  ). PID val	s (VOCs) wit ues represent	h a 11.7 eV portable meter response in p e sent to laboratory	HNu parts per	million				
a r		(I aı	opm) abo 1alysis. N	ve backgroe ND indicate	und values s None De	for each san	nple. """ ind backgroun	dicates sampl id.	e sent to laboratory	tor addi	tional				
k s			-				J								

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

L-03 Boring No.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

# ENVIRITE THOMASTON, CONNECTICUT

Boring N	io.		L-04
Page	1	of	2
File No.		413	02.3
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19	(203	3) 875	-7655											1	Chkd. By:	JMB
F-2	югі	ng Co	o. GZ/	A DRILL	ING				Casing	Sampler		Grou	ndwat	т_	eadings	
٠,	ore	man		Al Augu	stine		Тур	e	HSA	S.S.	Date	Time	De	pth	Casing	Stab. Time
	įΖ		onmen	101			I.D.	/O.D.	2-1/4"	2" O.D.						
	kep.		Hele	ena Holla	uer		Han	nmer Wt.		140 LB.						
L	ate	Star	t 5/23,	/94	End	5/23/94	Han	nmer Fall		30"					<u> </u>	
L	oca	ation	s	ee Plan			Oth	er			L		<u> </u>		1	
⊢		Elev.			Datum											
	1 1	CB SL NW			nple Infort	<del></del>	1			ample		Stratur		R M	Equipment	Installed
l	l I	N W G S	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data		Description	& Classification		Description	n.	K S		
Г			Α	24/10	0-2	2-5	4	Top 3":	TOPSOIL 7": Medium d SAND, trace	ence fine to		0.5TOPS	OIL	1.		
	1					10-9		medium	SAND, trace	Silt						
												SAND	,			
						ļ						5.0'				
	5		<u> </u>			<u> </u>					<b> </b>					
			В	24/24	5-7	2-2	80*	Soft, bro	own, black, ora	nge SLUDGE				' <b>!</b>	NO EQ INST	UIPMENT ALLED
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	10		С	24/24	10-12	2-3	20				1	SLUDG	E	H		_
	ŀ			24/24	10-12	1-2	20	white SI	own, grey, gree LUDGE	n, Orange,	Ì			-		
1						1-2								- 1		
		_				<del> </del>		}						- 1		
								1								
	15		D	24/24	15-17	1-2	15*	Top 20": black, or	: Medium stiff range SLUDGI 4": Fine to me	, brown, E		16.6'		ı		
	ı				<del>-</del> -	5-22		Bottom	4": Fine to me	dium SAND	-	17.0' SAND	,	l		
					· · ·			1								
											-					
	20							]			1		l	1		
	20		E	24/24	20-22	1-1	40	Top 16": SLUDG	Soft, black, o	range, white	1	SLUDG	E	l		
						1/12"		Bottom SLUDG	8": Very soft,	grey, green						
	-										- 1					
	25															_
	-		F	24/24	25-27	2/12"-	20*	Top 20": green, or	: Soft, black, w range SLUDG: 4": Loose, blac nedium SAND	hite, grey, E		26.6'				
	-					2-6		Bottom fine to n	4": Loose, blac nedium SAND	ck, brown,	-  -	27.0' SAND				
	}											er ribe	<u> </u>			
												SLUDG	Ľ			į
R	+			<u> </u>		L		L				<del> </del>	!			
e 10	- }		1. Soil	samples	field scree	ned for vol	latile organic	compour O), PID v	nds (VOCs) wit	th a 11.7 eV portab	le HNu parts per i	million				
a r			(r ar	opm) abo nalysis. N	ve backgro D indicate	und values s None De	for each san	nple. "*" backgro	indicates samp und.	th a 11.7 eV portable meter response in le sent to laborator	y for additi	onal				

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. L-04

27 l Ver	Jack R	load Connec	NVIR( neers/Ge		TAL, IN	C. ntal Scientists	5		THOMASTO	ENVIRIT ON, CON	E NECTICUT		1	Boring No. Page 2 File No. Chkd. By:	L-04 of 2 41302.3 JMB
Вогі	ng Co.		DRILL					Casing	Sampler					eadings	
	man		Al Augu	stine		Тур		HSA	S.S.	Date	Time	De	pth	Casing	Stab. Time
GZ/ Geo	Enviro	nmen	tal .	*			/O.D.	2-1/4"	2" O.D.	-		<del> </del>		<del> </del> -	
Rep			Helena I		5/23/94		nmer Wt.		140 LB.	}				<del>                                     </del>	<u> </u>
1	Start	3/23/	See Plan		3/23/94	Oth	nmer Fall			-		_			
ŀ	Elev.		See I lall	Datum			C1				<u> </u>			. l	<u> </u>
D	СВ		Sar	nple Inform			T		Sample	•	Stratur	n	R	Equipment	Installed
P T H	S L N W G S	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data			& Classification		Descriptio	n	R M K S		
		G	24/24	30-32	2-3	20*	Top 19"	Soft, black S	LUDGE	-	SLUDO	iΕ	1.		_
					47-72		Bottom	5": ROCK fra	igments		313				
											ROCK FRAGME	NTS		NO EO	UIPMENT
											34.5'		2.	INST	UIPMENT ALLED
35	_	Н	24/0	34.5-	100/1"	•	No reco	very			END O	F			_
				34.6							EXPLORA	NOIL			
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R e m a r	1	I. Soil	samples lodel PI- opm) abo nalysis. N	field screen 101, photoion ve backgro VD indicate refusal at 35	ned for vo onization ound values s None De	latile organic detector (PIL s for each san etected above	compour )). PID v nple. "*" i backgrou	nds (VOCs) wi alues represen indicates samp und.	th a 11.7 eV portab t meter response in le sent to laborator	ele HNu n parts per ry for addi	million tional				

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level eadings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

Cor 27 N Ver	isultin Vaek l	ig Engi Road Connec	NVIRO		TAL, IN	C. ntal Scientist	<b>S</b>		THOMASTO	NVIRII N, CON	E NECTICU	r	1	Boring No. Page 1 File No. Chkd. By:	L-05 of 2 41302.3 JMB
Bori	ing Co	. <b>GZ</b>	DRILL	ING				Casing	Sampler		Gro	undwa	ter R	eadings	
,iore	man		Al Augu	stine		Тур	c	HSA	S.S.	Date	t Time	D	epth	Casing	Stab. Time
GZ/						I.D.	/O.D.	2-1/4"	2" O.D.					1	
Rep		onmen Hele	tai ena Holla	uer		Har	nmer Wt.		140 LB.						
Date	Star	5/19/	/94	End	5/20/94	Han	nmer Fall		30"						
Loca	ation		See Plan			— Oth	er -					1			
GS.I	Elev.			Datum	1	<del></del>								<del> </del>	* ····
D	СВ		Sar	nple Infor	mation				Sample		Strati		R	Equipmen	Installed
D P T H	S L N W G S	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data			& Classification		Descripti	on	R M K S		
		A	24/16	0-2	2-5	ND	Top 4":	TOPSOIL			0.5 TOP	SOIL	1.		_
					3-4		Middle 1 medium	TOPSOIL 10": Loose, bi SAND, some	rown, fine to Silt		SAN		1		
					1		Bottom 2	2": Brown, or	ange SLUDGE		1.2		↓		
					<u> </u>		1							NO EO	UIPMENT
					<u> </u>						1			INSI	ALLED
5		В	24/20	5-7	1-1	14*	Soft. ora	nge, brown. b	lack SLUDGE		1				_
					1-1	<del> </del>	1	<b>0</b> ,, -			ļ				
						<del> </del>									
					<del> </del>		1								
10		С	24/24	10-12	1/12"-	4	Very sof	t, orange, bro E	wn. black						-
			- '		1/12"		SLUDG	É	,						
					1		1				SLUD	GE	]		
,					<u> </u>		1								
					<u> </u>		1				1				
15		D	24/22	15-17		200*	Soft, blac	ck and white s E	speckled						_
							SLUDG	E	-				l l		
					Ì		1						1		
							]				}				
20		Е	24/24	20-22	1-2	95*	Soft, blac	ck and orange hite SLUDGE	, brown,		ļ				
					2-1		green, wi	nite SLUDGE	3						
											1				
25		F	24/24	25-27	1-2	400*	Medium	stiff, black an	d brown SLUDGE						_
ţ					3-3						]		1		
1															
ľ															
_											<u> </u>		<u></u> ∐		
R		1 6		Cald at		lotila		de (VOC-)	ish a 11 7 -1/	LINT					
e m		ı. Soil M	samples odel PI-1	ileid scree 101, photoi	onization o	detector (PII	)). PID va	us (VUCS) Wi alues represen	ith a 11.7 eV portable it meter response in pole sent to laboratory	parts per	million				
a r		(P ar	pm) abo alysis. N	ve backgro VD indicate	es None De	tected above	backgrou	ndicates samp ind.	ле вені то іавогатогу	101 800	IUONAI				-
k s															

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27	Nacl	Road			TAL, IN	IC. ntal Scientists			THOMASTO	NVIRITE N, CONN	ЕСПСИТ		] 1	Boring No. Page 2	
(2)	mon 03) 8	, Conne 75-7655	cticut 060	66						,				File No. Chkd. By:	41302.3 JMB
Bo	ring (	Co. GZ/	A DRILL	ING			Car	sing	Sampler		Grou	ndwate		eadings	31413
•	remai		Ron Ho			 Тур	-	ISA	S.S.	Date	Time	De		Casing	Stab. Time
<b>T</b> G2		·						-1/4"	2" O.D.		-			1	
Ge Re	oEnv	ironmen	tal Helena l	Hollauer		•	mer Wt.	<del>-, -</del>	140 LB.	<b></b>	<del>                                     </del>			+	
1	-	art 5/19		End	5/20/	<del></del>	mer Fall		30"					· · · · · ·	
1	cation	_	See Plan			Othe		<del></del>			<del></del>				
1	Elev			Datum	1						<u>.l</u>	<u> </u>		<u> </u>	
-	C		Sa	mple Inform				Sa	ımple		Stratun	, ]	R	Equipment	Installed
D P T H	SI N G	W-	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data	Des		Classification		Description		R M K S		
۳	†	G	24/9	30-32	68-32	7	Very dense, br	rown-med	ium grey SAND,				1.		-
					23-24		trace Silt				SAND 32.0'	' <b> </b>			
		<del>                                     </del>	1		<del>                                     </del>	<del>                                     </del>				t	END O	F			
		1	ļ			<del>                                     </del>					EXPLORA	топ			
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e m	]	1. Soil	samples	field scree 101, photoi	ned for vo	latile organic detector (PIE	compounds (VO)). PID values r	OCs) with represent	a 11.7 eV portable meter response in p	e HNu parts per i	million				
a		(J a)	pm) abo nalysis. N	ve backgro	und values s None Do	for each san	ple. *** indicate background.	es sample	a 11.7 eV portable meter response in p sent to laboratory	for additi	onal				
k	}		,												
	atif	ication	lines	represen	t approx	imate bour	laries betwee	n soil i	types, transition	ons may	be gradua	l. H	ate	r level	
eac	dings	s have	been ma	de at tir	nes and t	under condi	tions stated	l. Fluci	types, transitions of grou	undwater	may occu	r due	to	other	
[ ""		CHAIL C	pi	Journa at	CIME	,	ACI C INCO							Boring No.	L-05

27 Nack Road Vernon, Connecticut 06066 (203) 875-7655

# ENVIRITE THOMASTON, CONNECTICUT

 Boring No.
 L-06

 Page
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 of
 2

 File No.
 41302.3

L													$L^{c}$	Chkd. By:	JMB
Sor	ing Co	. GZ	A DRILL	ING				Casing	Sampler		Groun	ndwater	Re	adings	
For	eman		Ron Hol	man		Тур	c ,	HSA	<u>S.S.</u>	Date	Time	Dep	th	Casing	Stab. Time
GZ	A Favir	onmen	ıtal				/O.D.	2-1/4"	2" O.D.			<u> </u>			
Rep		Hel	ena Holla	uer			nmer Wt.		140 LB.					<b></b>	
Date	e Start	5/18	/94	End_	5/18/94	Han	nmer Fall	<del></del>	30"		<u> </u>	<u> </u>		↓	
•	ation	S	See Plan			Oth	cr			L		<u> </u>		<u>i</u>	
-	Elev.			Datum			т					<del></del>	<del>_</del>		
D P T	CB SL NW		T	nple Inforr	<del></del>	<del></del>	_		Sample		Stratun	n   ]	R M K S	Equipment	Installed
H	N W G S	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data		•	& Classification		Description		K S		_
	Ш	Α	24/20	0-2	2-2	1.5*	Top 3": Bottom	TOPSOIL 17": Medium, e SLUDGE	brown.	-	0.3'TOPS	OIL	1.		
	$\sqcup$			<u> </u>	3-3	<u> </u>	turquois	e SLUDGE	····,	1			İ		
	igsqcup		<u> </u>	<b></b>	<b> </b>	ļ <u>.</u>				1		ł			
	$\vdash$			<del></del>	<b></b>	ļ <u> </u>				1					
5	$\vdash$		24/27		<del> </del>	<del> </del>						ŀ	ı		_
	$\vdash$	В	24/21	5-7	1-1	2.5	Soft, gre and blue	y-brown SLUI : flakes	DGE with rust	1			1		
	$\vdash$		-	<del></del>	1-2	<del> </del>	-						1	NO FOI	UDMENT
	$\vdash \vdash \vdash$		┼──┤		<del> </del>	<del> </del>	ł			1			-	INST	UIPMENT ALLED
	$\vdash$		+-+		<del>                                     </del>	<del>                                     </del>	1			Ì					
10		С	24/24	10-12	1/12"	17*	Very sof	+ dark hrown	orange.				-		_
	$\vdash$				1/12	<del></del>	sľuďg	t, dark brown, E	Orange		SLUDG	iF.			
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15	H	D	24/9	15-17	2-1	8	Soft, dar	k brown, oran	ge SLUDGE						_
					3-1		1						1		
						<u> </u>	1			Ī					
							1								
20		E1	24/0	20-22	11-12	NA	No recov	ery		ļ					
					10-10								-		
		E2	24/6	22-24	6-6	7	Stiff, blad	ck, orange SLI	UDGE						1
					4-4					ŀ					
25													-		_
<b>~</b>		F	24/24	25-27	1-1	4*	Soft, blac	ck, orange and	white SLUDGE						,
			L		1-1										
							1			F		ĺ	ĺ		
3			<u> </u>		<b> </b>					ŀ					
						L							丄		
R		1. Soil	l samples	field scree	ned for vo	latile organic	compoun	ds (VOCs) wi	th a 11.7 eV portabl	le HNu					
m a		(I	ppm) abo	.01, photoi ve backgro	onization of und values	netector (PIEs for each san	)). PID va nple. """ i	alues represen ndicates samp	th a 11.7 eV portabl t meter response in le sent to laborator	parts per i y for additi	million ional				
r k		ai	naiysis. N	indicate	s None De	etected above	; oackgrou	ind.							
· s															

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. L-06

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١,	)7 N	tool. E	) ond			MINITOHING!	mai Scientist	3		THOMAST C	ENVIRITE N. CONN	ECTICUT		] 1	Page 2	of 2
lį	Ver 203	non, C	Onnec 7655	ticut 060	66					monnore	<i>51</i> 1, CO1111	Derico:		1	File No.	41302.3
L															Chkd. By:	JMB
		_		DRILL					Casing	Sampler		<del></del>			eadings	·
****		man		Ron Hol	man		Typ		HSA	S.S.	Date	Time	De	pth	Casing	Stab. Time
10		Enviro	nmen	tal				./O.D.	2-1/4"	2" O.D.	ļ	-				<u> </u>
- 1	lep.			Helena I		E /10 /04		nmer Wt.		140 LB.		-			<del> </del>	
		: Start ition	5/18,	See Plan		5/18/94	Oth	nmer Fall				<del> </del>			<del> </del>	<u>!</u>
		Elev.		See Flan	Datum		—— Oil	CI					L		ــــــــــــــــــــــــــــــــــــــ	!
-	_			Sar	mple Inform			1		Sample	T	Stratur	n	R	Equipment	Installed
17	0	CB SL NW		Pen./	Depth	Blows/	Field	1		& Classification	ŀ	Description		M K S	1-7-	
Ľ	I	GS	No.	Rec.	(Ft.)	6"	Test Data	ļ				<del></del>		$\vdash$		
	ı		G	24/24	30-32	2-2	15*	Soft, bla SLUDG	ck, orange, tu E	rquiose				1.		
					<u> </u>	2-2	<del> </del>	┨			1	SLUDO	E			
						<del> </del>		-			1				NO EQ	UIPMENT ALLED
	ŀ	-				<u> </u>		┨			İ	35.0'		Ιİ	11451	ALLED
	35		Н	23/14	35-36.9	67-55	3	Very de	nse, white to g	rrev ROCK	-  -					-
				20,11	00 00.2	87-100		fragmen	ts	, o, no en		COBBLE BOULDE	S/ ERS			
						<u> </u>	<u> </u>	1			l	38.0'		ll		
						· · · · · · · · · · · · · · · · · · ·		1				END O	F	1		
								1				EXPLORA	MOIT			
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R								<u>.                                    </u>	. 4(00)							
m	ı	1	. Soil M	samples odel PI-1	tield screei	ned for vo	detector (PII	compount). PID v	alues represen	ith a 11.7 eV portable it meter response in the sent to laboratory	parts per r	nillion				
I a	- 1		ar	ialysis. N	ID indicate	s None De	etected above	e backgrou	ind.	ne sem to laboratory	, ioi addilli	Olidi				
k s	$\perp$															
	rat adi	ific	ation have	lines been ma	represent	t approxi	imate boun under cond	daries b	etween soil tated. Flu	types, transiti ctuations of gro	ions may oundwater	be gradua may occu	l. N	late ≥ to	r level other	
fa	cto	ors t	han t	hose pr	esent at	the time	measurem	ents wer	e made.	<b></b>		, , ,			Roring No.	1-06

Boring No.

Ğ.	ZA G	EOE	NVIRO	ONMEN	TAL, IN	IC. ntal Scientist	^						Ti	Boring No.	L-07
1	Nack I		neers/O	cologists/ E	environine.	ntai Scientisu	•		THOMASTO	NVIRITE	CTICI IT		1	Page 1	of 1
Ve	mon, (	Connec	ticut 060	66				ł	INOMASIO	in, comi	SCIICO1		1	File No.	41302.3
(20	3) 6/3	- 1005												Chkd. By:	JMB
Bor	ing Co	. GZ/	DRILL	ING				Casing	Sampler		Grou	ndwate	r R	eadings	
J'OI	eman		Ron Hol	lman		 Тур	c	HSA	S.S.	Date	Time	De	pth	Casing	Stab. Time
ĞΖ	<u>A</u> .		. •				/O.D.	2-1/4"	2" O.D.					Ī	
Rep		onmen	tal Helena I	Hollauer		Har	nmer Wt.		140 LB.						
Dat	e Star	5/20,	/94	End	5/24/94	—— Har	nmer Fall		30*						
Loc	ation		See Plan			Oth	ег		· •						
GS.	Elev.			Datun	n	<del></del>									
Ď	СB		Saı	mple Infor	mation			S	ample		Stratun	n	R	Equipmen	t Installed
D P T H	INW	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data		Description &	& Classification		Description	n	M K S		
Γ		Α	24/12	0-2	1-5	1	Top 3": T	OPSOIL	G t-	h	0.3 TOPS	OIL	1.		
	G S No. Rec. (Ft.) 6  A 24/12 0-2 1-3  5-4  B 24/24 5-7 1-3						medium S	OPSOIL Loose, brok AND, trace S	Silt					l I	
	5 B 24/24 5-7 1-3				Ì		]				SAND	, ]			
	A 24/12 0-2 1-5 5-6 B 24/24 5-7 1-2									İ		i		NO EQ	UIPMENT CALLED
١											5.0'			11451	.ALLED
ر	A 24/12 0-2 1-5 5-6 B 24/24 5-7 1-2 1-2 0 C 24/24 10-12 1-1				1-2	250*	Soft, brow	m, black, orar	nge SLUDGE						
	A 24/12 0-2 1- 5- B 24/24 5-7 1- 1- C 24/24 10-12 1-											l			
	B 24/24 5-7 1-2 1-2											ĺ			
												ì			
10											SLUDG	E			·
10		С	24/24	10-12	1-1	70*	Soft, brow	n, black, orar	ige SLUDGE			Ì			
					1-1										
Í															
15															
13		D	24/22	15-17	2-1	150*	J 4 CI I II	CE	olack, orange,		16.3'				
					42-55		Bottom 8"	: Very dense ND	, brown,	-	10.3				
							yellow SA	ND					-		
					]		]								
20													Ì		_
20		Е	24/12	20-22	5-5	20	Medium d trace Woo	ense, brown,	medium SAND,		SAND	,			
					7-18		I nace woo	a pieces			SAND	ı			
							j								ı
							]					]			
25															
చ		F	24/10	25-27	7-12	40	Dense, fin	e to medium	SAND, trace ip of spoon	1					
					30-45		Siit, Kock	tragment in t	ib or sboon		27.0'		İ		
							]			Γ	END O	F			
						1	1			[	WI LOKA	LIUIT			

e m a r k

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level eadings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

Soil samples field screened for volatile organic compounds (VOCs) with a 11.7 eV portable HNu
Model PI-101, photoionization detector (PID). PID values represent meter response in parts per million
(ppm) above background values for each sample. \*\*\* indicates sample sent to laboratory for additional
analysis. ND indicates None Detected above background.

G	ZA G	EOE	NVIRO	ONMEN	TAL, IN	C.		<u></u>					T	Boring No.	L	08
ì			neers/Go	cologists/E	invironme	ntal Scientist	S		THOMASTO	ENVIRITE				Page 1	of	1
Ve	Nack I	Connec	ticut 060	66					INOMASIC	on, com	ECTICOT		1	File No.	41302	2.3
[20	3) 6/3	-7033								<u> </u>			$\perp$	Chkd. By:	JME	3
3or	ing Co	GZ/	DRILL	ING				Casing	Sampler		Grou	ndwate	er R	cadings		
For	eman		Al Augu	stine		Тур	c	HSA	S.S.	Date	Time	De	pth	Casing	Stab. Tim	e
GZ.	4 Fnyin	onmen	tal			I.D.	/O.D.	2-1/4"	2" O.D.					<u> </u>		
Rep			Helena I	lollauer		—— Har	nmer Wt.		140 LB.			ļ				
Dat	e Star	5/19,			5/19/94		nmer Fall		30"		<u> </u>	<u> </u>		<u> </u>		
Loc	ation		See Plan			Oth	er			<u></u>	<u>    </u>	<u> </u>				
GS.	Elev.			Datun			<del></del>								· · · · · · · · · · · · · · · · · · ·	
D P T H	C B S L	<u> </u>	·	nple Infor			4		ample	1	Stratun		R M K S	Equipment	Installed	
T H	N W G S	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data		Description	& Classification	- 1	Description	n	K			
		A	24/18	0-2	1-4	1	Top 4":	TOPSOIL 14": Medium			0.5TOPS	OIL	1.			-
					11-15		Bottom fine to n	14": Medium ( nedium SAND	dense, brown,		<del></del>					
						1	1				SAND	,				
							1							NO EQ	UIPMENT ALLED	
					<u> </u>		1			- 1	5.0'			INSI	ALLED	
5		В	24/24	5-7	2-2	9*	Medium	stiff, brown-bl LUDGE	lack, orange-	Γ						_
					3-2		white SI	LUDGE								
							1									
							1									
							1			ĺ		- 1		,		
10		С	24/20	10-12	2-5	5*	Medium	stiff, brown, b	lack, orange,			l				_
					1-2		green Si	LUDGE			SLUDG					
•							]			1	SLUDG	'E	2.			
										1			۷.			
15										1						
13		D	24/24	15-17	WOH-18	3" 2*		ft, black, brown LUDGE	i, orange,	ŀ						
				, 	3		green si	LODGE		ł		1				
						ļ 	]									
					ļ <u> </u>					1				!		
20				_			<u> </u>			<u> </u>	20.0'					
		Е	24/10	20-22	5-5	5*	Medium and SIL		medium SAND	ĺ						
					6-9					İ	SILT AN	D I				
							]			İ	SAND					
					<u> </u>					}						
25										L	25.0'					_
		F	24/8	25-27	8-45	ND		nse, brown, fine some Silt	e to medium		SAND 27.0'					
					73-22		<b> </b>			 						
							ł			ł	END O EXPLORA	F TION				

R e m a

Soil samples field screened for volatile organic compounds (VOCs) with a 11.7 eV portable HNu Model PI-101, photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values for each sample. "\*" indicates sample sent to laboratory for additional analysis. ND indicates None Detected above background.
 Gravel layer at 13.0' depth.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. Boring No.

[6	7.A	GEOF	NVIRO	ONMEN	TAL, IN	<u> </u>		T				1	Boring No.	L-09
Č	onsult	ing Eng	incers/G	eologists/E	nvironme	C. ntal Scientist	s	1	ENVIRITE			1	Page 1	
V V	Naci ernon	Road Conne	cticut 060	66				THOMASTO	ON, CONN	ECTICUT			File No.	41302.3
(2	03) 87	75-7655						]				(	Chkd. By:	JMB
Bo	ring (	Co. GZ	A DRILL	ING			Casing	Sampler		Grou	ndwat	er Re	eadings	
ن.د	remai	·	Al Augu	stine		Тур	e HSA	<b>S.S.</b>	Date	Time	De	pth	Casing	Stab. Time
	ZA Servi	ironmen	tol.		-	I.D.	/O.D. 2-1/4"	2" O.D.						
	p.		Helena I	Hollauer		— Han	mmer Wt.	140 LB.						
Da	ite Sta	rt 5/23	/94	End_	5/23/94	— Han	nmer Fall	30"	<u> </u>					
La	cation	·	See Plan			Oth	er		<u> </u>					
G	Elev.			Datum	1		<b></b>							
D P T	C I S I N	B		nple Infor		·····	-1	Sample		Stratum		R M	Equipmen	t Installed
ТН	G	W S No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data	Description	n & Classification		Description	1	M K S		
Г		А	24/10	0-2	2-7	25	Top 2": TOPSOIL	d	-	0.2 TOPS	OIL	1.		_
					10-7		Top 2": TOPSOIL Boitom 8": Medium fine to medium SANI	D, trace Silt						
							]		ŀ	SILTY SAND				
		<u> </u>	<u> </u>	i 			]			GEL		Ιİ		
	5	ļ			<u> </u>		1			5.0'		l 1		_
	_	В	24/24	5-7	6-12	7*	Top 10": Very stiff, of SLUDGE	_					NO EQ	UIPMENT CALLED
ĺ	$\vdash$	<del> </del>	<u> </u>		12-5		Middle 1": ROCK fra						INST	ALLED
	<u> </u>		ļ				Bottom 13": Very still SLUDGE	ff, grey, green				l		
	$\vdash$	-				<u> </u>								
1	₀├	<del> </del>			ļ		<u> </u>			SLUDG	Е			_
ļ	-	C	24/24	10-12	1-1	10*	Top 12": Soft, black S Bottom 12": Soft, ora	SLUDGE ange, brown						
1	-	<del> </del>			1-1		SLUDGE							
		<del> </del>			ļ		1							
	-	+	-		<del>                                     </del>									
1	5	D	24/24	15-17	WOH/18	B"-1 22 *	Very soft brown blad	rk. orange.						_
ļ	$\vdash$	+-	1/			, . <sub>1</sub>	Very soft, brown, blac white, green SLUDG	E E						
	-	†		_										
		<del>                                     </del>					1							
				<u> </u>			1							
2		E	24/24	20-22	18-13	25*	Top 14": Hard, brown	n, white, black		21.2'		ſ		_
					24-14		SLUDGE Bottom 10": Dense, t medium SAND, trace	prown, fine to		SAND				
]							medium SAND, trace	Silt	П	22.0' END OI	r,			
)									1	EXPLORA	TION			
2:												<b>`</b> ]		
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R e m a r k s Soil samples field screened for volatile organic compounds (VOCs) with a 11.7 eV portable HNu
Model PI-101, photoionization detector (PID). PID values represent meter response in parts per million
(ppm) above background values for each sample. \*\*\* indicates sample sent to laboratory for additional
analysis. ND indicates None Detected above background.

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level feadings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

# ENVIRITE THOMASTON, CONNECTICUT

 Boring No.
 L-10

 Page
 1
 of
 1

 File No.
 41302.3
 Chkd. By:
 JMB

L-10

3	lori	ng Co	o. GZ/	A DRILL	ING				Casing	Sampler		G	roundwa	ter R	cadings	
TF	ore	man		Al Augu	stine		 Тур	e	HSA	S.S.	Date	Tin	ne D	epth	Casing	Stab. Time
ļç	ZĄ	<u>.</u>	_					/O.D.	2-1/4"	2° O.D.						
R	ico: lep.	Envir	onmen	ital ClareAn	n Walsh		Har	nmer Wt.		140 LB.						
1	ate	Start	5/11	/94	End	5/11/94	—— Han	nmer Fall		30"						
L	oca	tion	-	See Plan			Oth	er	<del></del>							
	S.E	Elev.			Datum	l					<b>—</b> —					<u> </u>
Ti	)	СВ		Sar	mple Inforr	nation			s	ample		Str	atum	R	Equipmen	Installed
	1	S L N W G S	1	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data	1	Description	& Classification		Descri	otion	R M K S		· · · · · · · · · · · · · · · · · · ·
Г	7		Α	24/8	0-2	1-5	150*	Top 3":	TOPSOIL 7": Brown, fin		_	0.3°T	OPSOIL	1.		-
						4-4		Bottom '	7": Brown, fin	e SAND				1		
								1				SA	ND			
	ı							1								
								1			į	5.0'				
	5		В	24/22	5-7	2-2	8*	Soft, gree	en-orange SLU	JDGE	l			1		-
	j					1-2			· ·		ı				NO EQ INST	UIPMENT 'ALLED
	ł							1								
	ŀ							1								
l	ŀ						- <del></del>	1								
	10		C	24/24	10-12	8-4	4*	Medium	stiff, black wit	h flecks of				1		-
	ł					2-3		green an	stiff, black wit d white SLUD	GE						
'	ŀ				<del></del>			1								
1	ŀ							(13' Grav	/el)			SLU	DGE	1		
	ŀ							1								
	15		D	24/3	15-17	WOH/6	4*	Soft blac	rk, hright gree	n orange	l					-
	ŀ			,-	15 2	1-2-12		SLUDG	ck, bright green E, trace fine Sa	and	1					
	ŀ				_	1		1			Ì					
	ł				-			1								
	ł										ł	20.0'				
	20	-	Е	2/1	20-20.2	100/2"	4	Dark ore	y, fine to medi	um SAND	ł		ND	1		-
	ŀ			-/-		100/2		Duin giv	y, 11110 to 111001			22.0'		2.		
	ŀ										ŀ		O OF	<u> </u>		
	-			-								EXPLO	RATIO	1 1		
	- }															
] :	25			$\vdash$							- 1					-
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<u> </u>	+					!i	· ·					<del></del>				
R	- 1		1. Soi	samples	field scree:	ned for vol	atile organic	compoun	ds (VOCs) wit	h a 11.7 eV portabl	le HNu	million				
a	·		Ä	opm) abo	ve backgro	und values	for each san	nple. """ in	ndicates sampl	h a 11.7 eV portable meter response in e sent to laborator	y for addit	ional				
r k	ĺ		aı 2. Aug	ger refusa	il at 22.0' d	epth.	rected above	. оаск <u>у</u> гои	iid.							

stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 Nack Road

### ENVIRITE THOMASTON, CONNECTICUT

Soring No	0.	W	<b>7-01</b>
age	1	of	1
ile No.		413	02.3

1 (20	3) 875	-7655	neut ooo	00									1 1	TIC INO.	71304.3
L	5, 5.5												1	Chkd. By:	JMB
Bor	ing Co	o. <b>GZ</b> /	DRILL	ING			<u> </u>	Casing	Sampler		Grou	ndwat	er R	eadings	
For	eman		Al Augu	stine	-	Тур	c	HSA	<b>S.S.</b>	Date	Time	De	pth	Casing	Stab. Time
GZ.	<u>A</u> .					1.D.,	/O.D.	2-1/4"	2" O.D.	5/31/94	0918	16	.5'		
Rep		onmen H.	tai Hollauei	/ V. Roe		Han	nmer Wt.		140 LB.						
Dat	e Start	5/5/9	94	End	5/26/94	Han	nmer Fall		30"						
Loc	ation		See Plan			Othe	er -								
GS.	Elev.			Datum											
DP	C B S L		Sar	nple Inforn	nation				Sample		Stratun	1	R M	Equipment	Installed
T H	N W G S	1	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data		Description	& Classification		Description	1	K S		
$\Box$		S-1	24/11	0-2	2-6	5	Medium	dense, brown	, fine SAND,				1.		
					10-19		little Silt								
		S-2	24/14	2-4	19-23	ND	Medium	dense, brown	, fine SAND,						
					20-20					- 1					
_		S-3	24/19	4-6	13-10	62	Medium little Silt,	dense, dark-g trace Gravel	rey, fine SAND, , (blue- th 1-2mm	ļ				No 55	
5					7-27		green dis flakes pro	coloration wi esent)	th 1-2mm	- 1				NO EQ INST	UIPMENT ALLED
		S-4	2/0	6-6.2	100/2"	-	No recov	егу		i					
							1								
		Α	24/5	8-10	11-11	600	Medium	dense, dark-b	prown, fine to	ľ	SAND				
١.,					14-7		medium :	SAND, trace	Wood fragments						
10		B 24/10 10-12 4-3 800 *				800 *	Loose, da	irk-brown, fir	ne to medium						_
					3-4		SAND, II	ttle Silt							
i		С	24/2	12-14	5-7	414	Medium	dense, dark-t	prown, fine to						
•					5-8		medium :	SAND, little	Silt						
15		D	15/6	14-15.2	7-13	60	Very den	se, grey-brow	n, fine to Silt, trace fine						
13					100/3*		Gravel	SAND, Hace	Silt, trace file						
		Е	24/4	16-18	22-30	50	Very den	se, grey-brow SAND, (rock	m, fine to				2.		
1					25-23	i .	medium s	SAND, (rock	tragments)	l.	18.0'	_			
										ſ,	END O	F	Ì		
20										1	CAPLORA	ויטוי			_
20															
25			I												
~															
													- 1		
							i						- 1		
										ł					
R	}	1 %	il samnle	s field sore	ened for w	olatile organi	ic composi	nds (VOCs) i	using a 10.0 eV port	able Therm	10				
m			Environm	nental Instr	uments M	odel 580B O for analysis.	VM photo	ionization de	tector. ND indicate	s None De	tected.				
r k		2. Sa	mple wet	at approxi	mately 16.	5 feet below	grade.								
S															

Itratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. W-01

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

# ENVIRITE THOMASTON, CONNECTICUT

Boring No.		W	-02
Page	1	of	1
File No.		413	02.3
Chkd. By:			МВ

	3ori	ng Co	GZA DRILLING Al Augustine						Casing	Sampler		Grou	ndwat	er R	eadings	
٦	Fore	man		Al Augu	stine		Тур	c .	HSA	S.S.	Date	Time	De	pth	Casing	Stab. Time
1	GZ/	<b>\</b> F		4-1			I.D.	/O.D.	4-1/4"	2" O.D.						
Į	Rep.		nmen Hele	tai ena Holla	uer/Valeri	e Roe	Han	nmer Wt.		140 LB.						
ļ	Date	Start	5/31,	/94	End	5/31/94	Han	nmer Fall		30"						
1	Loca	tion	S	ce Plan			Oth	ег								
	GS.I	Elev.			Datum											
I	D	ÇВ		Sar	nple Inform	nation			S	ample		Stratur	n	R	Equipmen	t Installed
	D P T H	CB SL NW GS	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data		Description	& Classification		Description	n	M K S		_
ſ			Α	24/6	0.5-2.5	5-11	8	Top 5":	ASPHALT			0.5'ASPH	ALT	1.		_
l	i					17-15		medium	dense, brown- SAND, rock fi	ragments						
ı			В	20/12	2.5-4.2	44-47	8	Very der	nse, brown, fine rock fragments	e to medium						
Ì						43-36/2	2"	SAND,	rock iragments		}	SAND	•	2.		
1	-		С	24/18	4.2-6.2	61-45	7	Very de	nse, brown-grey AND, some fin	y, fine to						_
I	3					75-50		rock frag	and, some ingments	ie Gravei,					NO EQ	UIPMENT ALLED
ł			D	9/9	6.2-7.0	60	7	Very de	nse, brown-grey AND (rock fra	y, fine to		7.0'			11/21	ALLED
l						100/3"		coarse 5	AND (rock ira	gments)	ſ	-		3.		
ł			E	24/18	7-9	55-62	7	Very der	nse, fine to me	dium						
ſ						43-49		medium	L (rock fragme to coarse Sand	ents), some		CANTO				
١	10		F	23/16	9-10.9	29-70	7	Very der	se, fine to me	dium		SAND GRAVE	EL.			_
ļ						80-100,	/5"	medium	nse, fine to med L (rock fragme to coarse Sand	ents), some I		COBBL	ငသ			
	_		G	22/16	11-12.8	18-88	7	Very der	se, fine to med	đium		13.0'				
۲						57-100,	/4"	medium	L (rock fragme to coarse Sand	l some		END O EXPLORA	F			
l	15		Н	0/0	13-13	100/0"	-	Auger re	fusal			EXPLURA	HON			_
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Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. Boring No.

Soil samples field screened for volatile organic compounds (VOCs) using a 10.0 eV portable Thermo Envronmental Instruments Model 580B photoionization detector. ND indicates None Detected.
 \*\*\* indicates sample sent to laboratory for additional analysis.
 At about 3.5' depth, a piece of white PVC conduit and a rubber cord was found. According to John Krupa of Envirite, it was their inactive NPDES Discharge pipe.
 Auger refusal at 4.5' depth. New boring located 4' south of original boring. Split spoon sampling started at 7.0' depth.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

# ENVIRITE THOMASTON, CONNECTICUT

Boring No	٠.		W-03
Page _	1	of	2
File No.		413	02.3
Chkd. By:			иB

₹															
-	lorir	ng Co.	GZ/	DRILL	ING			Casing	Sampler		Groui	ndwat	er Re	adings	
GZA GeoEnvironmenta Rep. Helen Date Start 6/1/94 Location Sec GS.Elev.  D C B P S L	Ron Hol	man		Тур	e HSA	<b>S.S.</b>	Date	Time	De	pth	Casing	Stab. Time			
	GZA GeoEnvironment Rep. Hele Date Start 6/1/9 Location So GS.Elev.	4-1			I.D.	/O.D. 2-1/4"	2" O.D.	6/2/9	1200	24	.0'	34.0'	0 hours		
					uer/Valer	ie Roe	Han	nmer Wt.	140 LB.						
E	atc	Start	6/1/9	94	End	6/2/94	Han	nmer Fall	30"						
L	ocal	tion	S	ce Plan			Oth	er	<del></del>						
c	is.E	lev.	Number   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.   Pen.	1											
П	<u>p</u>	Elev.   End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94     End 6/2/94	mation			Sample		Stratun	1	R	Equipmen	Installed			
	T H	NW	No.			Blows/	Field Test Data	Description	& Classification		Description	1	M K S	· ·	
Г	7		Α	24/14	0-2	2-5	ND	Top 3": TOPSOIL		-	0.3TOPS	OIL	1.		
l	Ī					5-3		Bottom 11": Loose, fi SAND, trace Silt	ne to meaium		SILTY SA	ND			
	ſ		В	24/24	2-4	3-3	ND *	Medium stiff, brown,	olack, orange,		0.2'				
	ſ					3-4	1	green SLUDGE							
	أر		C 24/22 4-6 1-1	1-1	ND	Soft, brown, orange, b	lack, green								
	3	$\neg$				1_1		SLUDGE			SLUDG	E	1		_

5	-	-	24/22	4-0	1-1	ND	SLUDGE	SLUDGE		-
]	<del> </del>	D	24/20	6-8	1-1	11	Soft, green, light brown to brown.			
		<del> </del> -			1-1		Soft, green, light brown to brown, black SLUDGE			NO EQUIPMENT INSTALLED
	-	E	24/18	8-10	WOH-12	- 5	Top 16": Very soft, light brown to brown, black, white SLUDGE			•••••
	$\vdash$				12-14		Bottom 2": Fine to medium SAND	9.8'		
10	-	F	24/4	10-12	1-3	ND	Top 2": Medium stiff, black, brown, orange SLUDGE	10.0' SAND		-
İ		<del>                                     </del>			4-1		Bottom 2": Loose, fine to medium SAND	11.8' SLUDGE		
1	<b> </b>	G	24/4	12-14	2-2	7	Soft, orange, white, brown SLUDGE	12.0' SAND		
	$\vdash$		<u> </u>		1-1		,,	SLUDGE		
		Н	24/18	14-16	1-2	2	Top 10": Soft, orange, green, brown, SLUDGE	14.8'		
15					3-7		Bottom 8": Loose, fine to medium SAND	SAND 16.0'		
		1	24/20	16-18	9-9	165	Very stiff, red, black SLUDGE			
					12-9		1	SLUDGE		
	-	J	24/18	18-20	8-7	410	Stiff, red, black SLUDGE			
20					7-7		Top 4": Very stiff, red SLUDGE,	20.4'		
20		K	24/18	20-22	7-9	945*	Wood pieces Middle 8": Medium dense, fine SAND			٦
					14-15		Bottom 6": Medium dense, fine to medium GRAVEL (rock fragments)	COBBLES		
		L	3/0	22-22.3	50/3"	NA	No recovery		İ	
							T 130. D 5 4-	24.0'	٦	
25		М	24/18	24-26	9-14	356*	Top 12*: Dense, brown, fine to medium SAND		2. 3.	_
۵					18-16		Bottom 6": Dense, black, medium to coarse SAND	SAND (waste)		
		N	24/18	26-28	16-12	179	Medium dense, black, medium to coarse SAND	(waste)	4.	
		<u></u>			15-20		toalse SAND	28'		
		0	24/20	28-30	42-62	400	Very dense, black, medium to coarse SAND, trace fine Gravel	SAND		
					53-48		or a very mace time craves	With the second		
R	1									

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Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water leve readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Soil samples field screened for volatile organic compounds (VOCs) using a 10.0 eV portable Thermo
 Environmental Intruments Model 580B OVM photoionization detector. "ppm" indicates parts per million.
 ND indicates None Detected. "\*" indicates sample sent to laboratory for additional analysis.
 Sample wet at approximately 24' below grade.
 Oily, wet texture, odor.
 Waste material from 24 to 26 feet below grade.

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#### ENVIRITE THOMASTON, CONNECTICUT

 Boring No.
 W-03

 Page
 2
 of 2

 File No.
 41302.3

 Chkd. By:
 JMB

<u> </u>	oring	g Co.	GZA	DRILL	ING		·		Casing	Sampler		Groui	ndwat	er R	eadings	
F	rem	nan		Ron Hol	man		Тур	e	HSA	<b>S.S.</b>	Date	Time	De	pth	Casing	Stab. Time
Įģ	ZΑ		nment	va1			I.D.,	/O.D.	2-1/4"	2" O.D.	6/2/94	1200	24	.0'	34.0'	0 hours
	eori	nviro	Hela	na Holla	uer/Valeri	ie Roe	Han	nmer Wt.		140 LB.						
D	ate S	Start	6/1/9	4	End	6/2/94	Han	nmer Fall		30"						
L	cati	on	S	ee Plan			Oth	er	-							
G	S.Ei	ev.			Datum	1										
B	· [	CB SL		Sar	nple Inform	nation			S	ample		Stratun	n	R	Equipment	Installed
P T H		N W	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data		Description	& Classification		Description	n	R M K S		
Г	T		P	24/18	30-32	13-33	140	Very der	nse, fine to coa e Gravel	rse SAND,				1.		
1						44-48		some iin	e Gravei		ŀ	SAND				
	Γ		Q	24/18	32-34	44-36	79	Very der	nse, light brow	n-orange SAND, fragments)	i	SAND	,		NO EQ	UIPMENT ALLED
1			38-36					some iin	e Gravei (10ck	iragments)		34.0'			1031	ALLED
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Soil samples field screened for volatile organic compounds (VOCs) using a 10.0 eV portable Thermo
 Environmental Instruments Model 580B OVM photoionization detector. ND indicates None Detected.
 """ indicates sample sent to laboratory for additional testing.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. W-03

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

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# ENVIRITE THOMASTON, CONNECTICUT

Boring l	Vo.	W-04							
Page	1	of	1						
File No. 41302.3									

W-04

1	(20		-,005										C	hkd. By:	JMВ
Boring Co. GZA GeoEnvironmental, Inc.				Inc.		Casing	Sampler		Grou	ndwater	Rc	adings			
1	Foreman Al Augustine					Турс	HSA	S.S.	Date Time D		Dept	h	Casing	Stab. Time	
GZA			— I.D.,	/O.D. 2-1/4"	3" O.D.	10/18/9	4 1350	17.5		16.0'	0 hours				
GeoEnvironmental Rep. H. Hollauer/C. Walsh				Ham	nmer Wt.	140 LB.									
Date Start 10/18/94 End 10/18/94			— Han	Hammer Fall											
Location							Othe	er							
GS.Elev. Datum															
D C B Sample Information				ation		Sample		Stratum			į	Equipment	Installed		
	P T H	N W G S	No.	Pen./ Rec.	Depth (fect)	Blows/	Field Test Data	Description	& Classification	1	Descriptio	n k			
ĺ			Α	24/20	0.5-2.5	10-52	ND	Sample A: Top 3": ASPHALT			ASPHALT 0.3'				
1						15-10		Middle 6": Grey, fine coarse fine GRAVEL	SAND and	}!	0.3				
l			В	15/6	2.5-3.7	7-48	ND	Bottom 11": Grey, fin	e SAND	1				NO EQUIPMENT INSTALLED	
l						100/3"		Very dense, brown, fir trace Silt	ne SAND,			1			
l	5							trace Sin		ł			ł		_
١	,							Sample C:					1		
۱			С	24/6	6.5-8.5	7-8	ND	Medium dense, brown trace Silt	, fine SAND,	1					
l						10-11		Sample D:		ļ			ı		
			D	24/20	8.5-10.5	5-6	ND	Loose, brown, fine SA Sample E:	ļ	SAND					
l	10				· · · · · · · · · · · · · · · · · · ·	3-3		Top 10": Grey-brown SILT	, fine SAND and	ļ					
l			Е	24/18	10.5-12.5	1-2	ND	Middle 1": Brown, me Bottom 7": Grey-brow and SILT	dium SAND						
ı						2-2		Sample F	. Giey-olowii, line de nab						
ų	1		F	24/22	12.5-14.5	3-3	ND	Top 3": Pink-white, m Middle 6": Brown, fin	edium SAND e SAND				1		
I	!					2-3		Bottom 13": Black, Cl Sample G:	k, Clayey SILI	ľ			1		
İ	15		G	24/22	14.5-16.5	1/12"	ND	Loose, brown-grey, fin				1	۱		_
						1-9		Top 3": Brown-grey, f			16.8'		١		
į			Н	13/13	16.5-17.6	20-22	ND •	(rock fragments) Sample I:		-			1		
						100/1*		Very dense, brown-gre to medium GRAVEL	y SAND and fine (rock fragments)				11		
			I	24/6	18-20	127-41	ND		ion out ( se (con nagmone)						
	20					45-27				<u> </u>	END OF EXPLORATION				-
				<u> </u>		<u> </u>				l I			-		
l				<b></b>	<u> </u>	<u> </u>				j	]				,
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Soil samples field screened for volatile organic compounds with a 10.6 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values. "\*" indicates sample sent to laboratory for analysis. ND indicates None Detected.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. Boring No.

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### ENVIRITE THOMASTON, CONNECTICUT

Boring No. W-05
Page 1 of 1
File No. 41302.3

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Bor	ing Cr	o. <u>G</u> Z	A GeoE	nvironmental,	, Inc.			Casing	Sampler		Gr	oundwa	iter Re	cadings	
For	eman	_	Al Augu	ustine		Турс	e	HSA	S.S.	Date	Tim	e D	epth	Casing	Stab. Time
GZ/	A Basis	ronmer	-401			I.D.	./O.D.	4-1/4"	3" O.D.	10/19/	/94 092	0 1	l <b>6.9</b> ′	out	0 hours
Rep.		Onnie	H. Holi	iauer/C. Walsi	h	Han	nmer Wt.		140 LB.						
Dat	e Star	rt 10/1	9/94	End 10	0/19/94	— Han	nmer Fall		30"		$\prod_{}$	$oxed{\mathbb{L}}$			
Loc	ation	_				Othe	.er					$\bot$			
GS.	Elev.			Datum					· = <u></u>						
D	СB	, C	Si	ample Informa	ation			S	Sample		Stra	tum	R	Equipment	t Installed
P T H	S L N W G S	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data		<u>-</u>	& Classification		Descrip		R M K S		
		Α	24/12	0.5-2.5	15-18	ND	Dense, s	grey-brown, fin EL	e to medium		ASPI م	HALT	1.	• •	
i ,					18-23		Olv., -	3L		1	<u></u>		<b>1</b>		
		В	24/4	2.5-4.5	10-7	ND	Medium	n dense, grey-bi EL and medium	rown, fine		GRA	VEL			UIPMENT TALLED
,					6-4		Jun	3L and mee	ו איייים ו		4.5'			<b>4.</b> •	الاستانات
5	'	С	24/18	4.5-6.5	3-6	ND	Medium and SIL		own, fine SAND	ŀ			۱ ۲		_
-,					6-9		and ore.	1							
		D	24/16	6.5-8.5	14-12	ND	Medium and SIL	dense, red-br	own, fine SAND	1					1
,		'		1	9-6		ano ore.	1		-					1
		E	24/14	8.5-10.5	2-2	ND	Loose, g	grey-black, fine	SAND and	Ī	SAND	AND			
10	.['				3-1		_			]	SII	Ϋ́			_
10		F	24/18	10.5-12.5	2-1	ND	Very loc	ose, grey-black, T	fine SAND						
, ,					2-2		ano ore.	1		]					
•		G	11/6	12.5-13.4	10-100/	/5" ND	Very der and SIL	nse, grey-black T (Gravel in tij	, fine SAND p of spoon)						
, 	<del></del> '	Н	2/2	14.5-14.7	100/2"	ND	Very der	nse, grey, fine t trace coarse Gi arse GRAVEL	to medium		14.7'	·	] [		
15	$\vdash$	+	2/2	14.2-17.7	100/2	172	SAND, t Silt (Coa 16.5 foot	arse GRAVEL	from 14.7 to		GRA	VEL	]		_
. !	<del> </del>	1	24/8	16.5-18.5	24-23	ND *	-1	• •	n medium to		16.5'		]		
,	<b> </b>	<del> </del>	-		31-25	<del></del>	coarse S	nse, grey-brown SAND, trace fin	e to medium	- 1	SAI	۷D			
1		<del> </del>	-		<del> </del>	<del></del>				ļ	18.5'		]		
!	<del> </del>	<del>                                     </del>	-	<del></del>	<b> </b>	<del> </del>	İ				END EXPLOI	OF RATIO	1		
<b>2</b> 0	$\vdash$	<del>     </del>		ı <del>!</del>	-	<del> </del>	1			}	<b>D</b>		] ]		_
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i '		<del>                                     </del>					†			I					
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!	$\square$	1		<del></del>			1			1			11		
25				<del></del>			1			1				ı	_
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ł				, <del></del>			1			1				İ	
R	一						<del></del>								
e m	1	1. <b>S</b> ọ	il sample Instrume	s field screene nts Model 580	ed for vola JB photoic	itile organic onization de	compountector (PI	ids with a 10.6 (ID). PID value	eV portable Thern is represent meter	no Environ response ir	mental 1 parts				
a r	1	Ţ	per millio ND indic	n (ppm) abov ates None De	/e backgrov tected.	und values.	"*" indica	atés sample ser	es represent meter nt to laboratory for	r analysis.	•				
k s	1														

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

#### ENVIRITE THOMASTON, CONNECTICUT

(20	3) 875	-7655										Chkd. By:	JMB
Bor	ing Co	. GZ	A GeoEr	vironmental	, Inc.		Casing	Sampler		Grou	ndwater	Readings	
For	eman		Al Augu	stine		Тур	e HSA	S.S.	Date	Time	Depti	Casing	Stab. Time
GZ	Ą		-4-1				/O.D. 2-1/4"	3" O.D.	10/19/94	1140	22.1'	out	0 hours
Rep	Envin ).	onme	H. Holl	auer/C. Wal	sh	Han	nmer Wt.	140 LB.					
Dat	e Start	10/1	9/94	End 1	0/19/94	Han	nmer Fall	30"					
Loc	ation	_				Oth	cr					[	
GS.	Elev.			Datum			<u> </u>						····-
D	C B S L N W		Sa	mple Inform	ation			Sample		Stratun	n R	Equipme	nt Installed
D P T H	N W G S	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	Description	n & Classification	D	escription	n R M K S		
H		-			1						1	┥	-
l					1		1		1		ł	ł	
												NOE	QUIPMENT STALLED
							NO SAMPLES	COLLEGED EDO	.			INS	IALLED
				_			0 TO 10	COLLECTED FROM FOOT DEPTH	M				
5													_
l													
10									10	0'			-
"		Α	24/22	10-12	6-11	0.8	Medium dense, brow medium SAND, trace	n-grey, fine to Gravel					
				_	10-8					SAND	'		
.1		В	24/24	12-14	3-3	0.8	Loose, brown-grey, fi SILT	ne SAND and					
	<u> </u>	_	2.11.1		4-3				1.	4'			
15	$\vdash$	С	24/14	14-16	4-3	0.8	Loose, light to dark b	rown, SILT					_
		_	24/24	16.10	3-3 4-5	1.3 *	   T                                                                                                                                                                                                                                                                                                                                     -     -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -	en e		SILT			
		D	24/24	16-18	3-4	1.3	Loose, grey to black S	SILI		SILI			
	$\vdash\vdash\vdash$	Е	24/16	18-20	2-1	1.7	Medium dense, grey	to black SII T					
}		دء	27/10	10-20	15-28	1.7	(Gravel in tip of spoo	on)	20	יי			
20		F	24/6	20-22	18-22	0.4	Dense, light brown to	grey, fine	<u> </u>	<u></u>	$\dashv$		_
	$\vdash \dashv$		- 7-		16-20		SAND	6 -7,	[	SAND			
	$\vdash \vdash$	G	24/12	22-24	40-34	ND *	Very dense, grey, med	dium SAND					
					24-28		- · · · · ·			4.0'			
										END O	F		
25									E	KPLORA	TION		_
									1				
								- <u></u>				<u> </u>	
R		1. \$	il sample	s field screen	ed for vola	tile Organic	compounds with a 10.	6 eV portable Therm	o Environme	ntal	-		
m a		. 50	Instrumer per millio	nts Model 58	0B photoio	nization de und values	tector (PID). PID values indicates sample s	es represent meter rent to laboratory for	esponse in pa	arts			
r k		1	ND indica	ites None De	etected.				,				,
' ŝ					<u>-</u> .								

Itratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

#### ENVIRITE THOMASTON, CONNECTICUT

Boring No. W-07
Page 1 of 1
File No. 41302.3
Chkd. By: JMB

Bor	ing Co		A GeoF	nvironmental,	Inc		•	Casing	Sampler		Grou	ndwater R	eadings	
	ing ca eman		Ron He		Tile.	— Тур	•	HSA	S.S.	Date	Time	Depth	Casing	Stab. Time
GZ		_	ROHTI				/O.D.	4-1/4"	3" O.D.	10/20/9		22.5'	out	0 hours
Geo	Envir	onme	ntal H. Holi	lauer/C. Wals	:h		nmer Wt.		140 LB.	10,20,			+	0 1100115
1 -	e Stari	10/2			0/20/94	<del></del>	mer Fall		30"		-			
	ation	<u></u>	<del>-,</del>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Othe	-			<b></b>			<del> </del>	
	Elev.	_		Datum						<b>L</b>		<u> </u>	<u>. I</u>	<u></u>
D	СВ		S	ample Inform	ation		1	Sa	imple		Stratur	n R	Equipment	Installed
P T H	SL		Pen./	Depth (feet)	Blows/	_ Field	1		Classification		Descriptio	n R M K S		
H	GS	No.	Rec.	(feet)	6"	Test Data								_
		<u> </u>	<del> </del>		-		ļ					1.		
		<u> </u>			<u> </u>		Ì						NO FO	LUDACEAZE
	<u> </u>	<u> </u>	<u> </u>		<del> </del>					1		- 1	INSI	UIPMENT ALLED
	-	┝			<del>                                     </del>		1							
5	$\vdash$	-			<del> </del>		}			l				_
					╁──	<u></u>	NO	SAMPLES CO	OLLECTED FROM	4				
	$\vdash$				╁──	<u> </u>	1	0101510	or bei iii					
					<del> </del>	<del></del>	1							
					<del>                                     </del>	<del> </del>								
10	-				<del> </del>	<del> </del>								_
					<del>                                     </del>	<u> </u>				ŀ				
1					<del> </del>	<b></b>								
J	$\vdash$				<del>                                     </del>					- 1				
	$\vdash$				<del> </del>	<u> </u>					15.0'			
15		Ā	24/16	15-17	1-2	8.1	Top 8*: ]	Red-brown SL	UDGE					_
1					2-2		Bottom 8   SAND at	B": Loose, brownd SILT	vn, fine					
		В	24/5	17-19	15-7	4.2	Medium	dense, brown,	fine SAND and		SLUDG	ie		
				_	7-6		SILT							
		С	24/20	19-21	2-3	11.7	Loose, bi	lack-brown SLI	UDGE					
20					3-4									7
1		D	24/12	21-23	4-34	2.2	Top 6":	Very dense, bla b": Very dense,	ck SILT	L	22.0'			
					37-32		medium	GRAVEL (cot	bbles)					
		E	24/10	23-25	26-25	ND	Very den (cobbles)		ium GRAVEL		COBBL	<sub>ES</sub>		
25					27-28		(0000103)	,			CODDE			-
~		F	24/6	25-27	18-32	0.4 *	Very den	se, fine to med	ium GRAVEL	ļ				
	L				19-22					<u> </u>	27.0'			
		G	24/24	27-29	24-14	ND	Top 12": black, me	Medium dense dium SAND	e, brown to	⊢	28.0' SAND			
					18-22		Bottom 1 medium	dium SAND  2": Medium d GRAVEL (cot	ense, fine to obles)	<u> </u>	29.0'COBB			
	$\vdash$				-			`	•	] 1	END O EXPLORA	TION		
R		1. So	il sample	s field screen	ed for vola	tile organic	compound	ds with a 10.6 e	V portable Thermo	Environ	nental		<u> </u>	
m		J	Instrume per millio	nts Model 580 on (ppm) above	B photoic	nization de und values.	tector (PII	D). PID values	V portable Thermo represent meter re t to laboratory for a	esponse in analysis.	parts			į
r		:	ND indic	ates None De	tected.					,,				

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

### ENVIRITE THOMASTON, CONNECTICUT

Boring No. W-08
Page 1 of 1
File No. 41302.3
Chkd. By: JMB

Bor	ing Co	э. <u>GZ</u>	'A Geole	nvironmental	i, Inc.			Casing	Sampler		Grou	nowat	er K	cadings	<del> </del>
For	eman	_	Ron Ho	olman		Турс	ε.	HSA	<u>S.S.</u>	Date	Time	De	epth	Casing	Stab. Time
GZ/ Gco	Envir	onme	ntal	** - 40 Wel	· •.	-	/O.D.	4-1/4"	3" O.D.	10/21/94	4	21	1.8'	out	0 hours
Rep		- 40.//		llauer/C. Wals			nmer Wt.		140 LB.	<u></u>	+-	┼─		+	<del> </del>
l	e Start	1 10/2	0/94	End 1	10/21/94	<del></del>	nmer Fall		30"	<u> </u>	+-	<del> </del>	—	+	<del> </del>
	ation	_		Datasa		Othe	er		1	L		ــــــــــــــــــــــــــــــــــــــ			<del></del>
	Elev.	_		Datum Samula Jafanan						<del></del>	Stratu		Т,, Т	Wantamer.	······································
D P T	C B S L			Sample Inform		T reals	4		ample		Stratur		R M	Equipmen	nt Installed
H	N W G S	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data		Description e	& Classification		Descriptio	n 	M K S	l	
		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1						1.		
	<u></u> '	<u> </u>	<u> </u> '	<u> </u>		<u> </u>	1						] }	İ	
		$otaclus_{-}$	<u> </u> '	<u> </u>		<u> </u>	1							NO EQ	UIPMENT TALLED
	$\bigsqcup$	<u> </u>	<u> </u> '	<u> </u>	<del>                                     </del>	<u> </u>	1							l	
5		<u> </u>	<b></b> '	<del></del>	<del>- </del>	<u> </u>	NO	SAMPLES CO	OLLECTED FROM	<b>л</b>				l	_
	<u> </u>	ــــ	<b> </b>	<del> </del>	<del></del>	<u> </u> '	Į.	0 TO 10 F	OOT DEPTH					l	
	$\square$	ـــ	<b> </b>	<del> </del>	<del> </del>	<u> </u>	∤							l	
	igwdapprox	<b>├</b> ─	<b> </b>	<del> </del>	<del></del> '	<b></b> '	4							ı	
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10	$\square$	ـــ	<b> </b>	<del></del>	<del></del> '	<u> </u> '	ļ			1			1	l	_
	$\square$	├_	<b> </b>		<del></del>	<del> </del> '	1			1	- 6 61			l	
i		<del>  _  </del>	1 24/9	12.14	20.21	3:1/		tten G	A1	<b>-</b>	12.0'		<b>∤</b>	i	
•	$\vdash$	A	24/8	12-14	39-21	241/	Dense, o SAND, t	prown-black, fin trace Silt	ie to medium	1				ı	
			1 34/20	14.16	22-8	248 *		4 dowlete	· · · · blook					i	
15	$\vdash$	В	24/20	14-16	17-6 5-8	51/27	fine to m	dense, dark-br nedium SAND,	trace Silt,	}	SAND	•	1 1	l	-
1		С	24/10	16-18	3-8 10-9	280/	4	ood pieces	CAND	1	שווענ	,	1	i	
:	$\vdash$	-	24/10	10-10	25-20	168 •	little coa	olack, fine to co urse Gravel	arse symp,					i	
	$\vdash$	D	17/6	18-19.4	58-104	72/77	Top 4":	Fine to coarse	GRAVEL	1			1 1	i	
		-	11/5	10-17:5	100/5"	12/	Bottom 2	) 2": Black, fine some Silt	to medium				1	l	
20	$\vdash$	E	24/20	20-22	110-53	13.1/	1			1		ı		i	_
ı	$\vdash$	<u> </u>	2017-1		56-53	4.1	coarse Sa Gravel (c	nse, grey-brown AND, little fine cobbles)	to coarse		22.0'			l	
ł	$\vdash \vdash$	F	24/24	22-24	40-36	2/12	4		n-black. medium	\frac{1}{V}	WEATHE	RED		i	
. /	$\vdash \vdash$	<del></del>			30-40	-,	to coarse	SAND (weath	n-black, medium hered Schist)	- 1	SCHIS 24.0'			l	
ļ	$\vdash$	$\vdash$			+	<del>                                     </del>				<u> </u>	END O	)F	1	İ	
25					+	<del></del>	İ			E	EXPLORA	MOIT	1	İ	-
	$\Box$	$\vdash$			+		1					I		ľ	
, /	$\Box$		<del></del>		+		İ			1		!		İ	
	$\Box$				+	<b></b>						ļ		ı	
, ,		$\Box$			+		1			ļ		ļ		ı	
R			<u> </u>		ــــــــــــــــــــــــــــــــــــــ		<u> </u>								<del></del>
c m		1. Sc	il sample Instrume	es field screen ents Model 58	ied for vola OB photoic	itile organic onization de	compountector (PI)	ds with a porta D). (First nun	able Thermo Environ ther in Field Screen licates reading with	nmental Data					
a r	İ		10.0 e v 3	2808 PID). PI	ID values re	epresent me	cier respor	nse in parts per	r million (ppm) acci	ve backgrou	und				
ık '	i	,	values. "*	" indicates sa	imple sent t	to laborator	ry for anal	ysis. ND indica	ites None Detécted.	. –					

stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. W-08

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

#### ENVIRITE THOMASTON, CONNECTICUT

Boring No. W-09 1 Page of File No. 41302.3 Chkd. By: **JMB** 

Groundwater Readings Boring Co. GZA GeoEnvironmental, Inc. Casing Sampler Stab. Time ∂oreman Ron Holman Турс **HSA** S.S. Date Time Depth Casing I.D./O.D. 4-1/4" 3" O.D. 10/26/94 1205 24.0' 0 hours out GeoEnvironmental Rep. H. Hollauer/C. Walsh 140 LB. Rep. Hammer Wt. Date Start 10/21/94 End 10/26/94 Hammer Fall 30" Location Other

LOCA							<u>"</u>			
GS.I	Elev.			Datum						
D	C B S L		Sa	mple Informa	ation		Sample	Stratum	R	Equipment Installed
D P T H	NW	No.	Pen./ Rec.	Depth (feet)	Blows/ 6"	Field Test Data	Description & Classification	Description	R M K S	
									1.	
!		<u> </u>					NO CAMBI DE COLLECTED EDOM			NO EQUIPMEN
				· · · · · · · · · · · · · · · · · · ·			NO SAMPLES COLLECTED FROM 0 TO 10 FOOT DEPTH			INSTALLED
10								10.0'		
10		Α	24/6	10-12	2-13	1.8	Sample A:		1	
					8-5		Medium dense, brown, fine to medium SAND, little Silt, trace Organics (Roots) (Gravel in tip of spoon)			
		-	<del>  </del>							
		-	<del>  </del>				Sample B:	SAND		
15		В	24/20	15-17	3-6	118/	Top 2.5": Medium dense, dark brown, fine to medium SAND		2.	
					8-10	234	Middle 0.5": SLUDGE Bottom 17": Medium dense, brown to			
		С	24/24	17-19	17-18	3.0/4.0	grey, fine to medium SAND, little Silt		3.	
,					10-11		Sample C: Medium dense, brown to black, fine SAND and SILT, trace fine Gravel			
20		D	10/2 1	19-19.8 43	100/4"	2.6/14.4	Sample D:	20.0'		
20		E	5/2	20-20.4	100/5"	13/123	Very dense, brown, medium to coarse SAND (Gravel in tip of spoon)			
							Sample E: Very dense, brown, fine to coarse	SAND AND GRAVEL		
		F	24/5	21.5-23.5	115-100	النساء	SAND, little fine Gravel Sample F:	23.5'	4.	
					75-43	555 *	Very dense, grey, fine to coarse SAND and fine to coarse GRAVEL		1	
25		G	24/16	23.5-25.5	21-21	577/	(cobbles)			
_					20-22	814 *	Medium dense, oil, black, fine to coarse SAND, some medium Gravel	SAND		
		Н	24/0	25.5-27.5	31-39		(waste) Sample H:	(WASTE)	4.	
					36-30		No recovery, spoon oily and wet Sample I:			
	_	I	24/14	27.5-29.5	31-40	234/	Very dense, black, fine to coarse	29.5'		
30				****	31-30	342	S-J: Top 6": Dense, grey, fine to coarse SAND Bottom 18": Dense, orange-brown.	SAND AND	5.	
	$\dashv$	J	24/24	29.5-31.5	12-25 26-28	6.1/9 *	coarse SAND Bottom 18": Dense, orange-brown, medium to coarse SAND and coarse	GRAVEL 31.5'	]	
		-		<u> </u>	20-28		GRAVEL (cobbles), weathered Schist	END OF EXPLORATION		

e m a

- Soil samples field screened for volatile organic compounds with a portable Thermo Environmental Instruments Model 580B photoionization detector (PID). (First number in Field Screen Data column indicates reading with 10.0 eV 580B PID; second number indicates reading with 10.6 eV 580B PID.) PID values represent meter response in parts per million (ppm) above background values.

   \*\*\* indicates sample sent to laboratory for analysis. ND indicates None Detected.

   Black poly liner in sample at approximatley 16.5 feet below grade.
   Sample observed to have strong odor.
   Sample observed to be oily.
   Waste material from 23.5 to 29.5 feet below grade.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 Nack Road Vernon, Connecticut 06066

#### ENVIRITE THOMASTON, CONNECTICUT

Boring !	No.		W-10
Page	1	of	1
File No.	41302	.3	

(20	13) 87:	5-7655												0	Chkd. By:	JMB
Bor	ring C	o. G2	'A GeoE	nvironmental,	, Inc.			Casing	Sampler			Groun	ndwate	er Re	eadings	
For	reman	. <u> </u>	Ron Ho	olman		Тур	æ	HSA	S.S.	Date	• ]	Time	De	pth	Casing	Stab. Time
GZ	Α		-4-1			I.D.	/O.D.	4-1/4"	3" O.D.	10/27/	/94	1230	24	.2'	out	0 hours
Rep		ronme	H. Holi	lauer/C. Wals	sh	Han	nmer Wt.		140 LB.							
Daf	ie Sta	rt 10/2	.7/94	End 10	0/27/94	Han	nmer Fall		30"							
Loc	cation	_				Othe	er ·									
GS	.Elev.			Datum												
D	C E S L	,	S	ample Informa	ation			S	Sample			Stratum	1	R	Equipment	t Installed
D P T H	-INV	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	]	Description	& Classification		De	scription	î	R M K S		
屵	十	+-		(,	<del> </del>		+							1.	<b></b>	
	<b> </b>	1		<del>                                     </del>	<del>                                      </del>	<del> </del>	1								ŀ	
1		<del>                                     </del>		l	<del> </del>	<del>                                     </del>	NC	SAMPLES C	OLLECTED FROM	м	1				NO EQ	UIPMENT TALLED
		1					1	0 TO 11 F	OOT DEPTH						INSI	.'ALLED
		<del>                                      </del>					1									
10		$\top$			<u> </u>		1				11	1.0'				_
		A	24/20	11-13	10-9	3.1/4.1	Medium	dense, grey-br	rown-orange							
					3-3		SLUDG	iΕ			١,	~	_			
					1		1				3	SLUDG	E			
١.,							1									
15							1				16	6.0'				_
l		В	24/4	16-18	39-43	2.1/3.1		nse, fine to coa	irse GRAVEL		С	COBBLE	žs			
j					42-38		(cobbles)	·)			18	3.0'				
		С	24/22	18-20	18-23	2.7-2.1	Medium	dense, brown,	fine to coarse							
20					23-42		SAND, a	some fine to co	arse Gravei							_
20		D	4/0	20-20.3	100/4"		No recov	very								
							]									
		E	24/0	22.5-24.5	48-52		No recov	very				SAND				
					51-52							SMIND				
25													Ì			_
-		F	24/0	25-27	60-55		No recov	very								
		<u> </u>		ļ	35-38	!	]									
		G	24/12	27-29	4-11	2.1-4.1	Medium	dense, brown in SAND, some	to grey, fine							
	L	igspace		<u> </u>	28-26	<u> </u>	Gravel	, Us as 120, 001	1110 10 102.22		29	9.0'				
30		igsqcup		ļ	<u> </u> '	!					EXI	END OF	F TION			_
1	<u></u>	<b> </b>		<u></u>	<u> </u> '	<u> </u>										
ĺ		igsquare	$\sqcup$	<u> </u>	<u> </u>	<b> </b>										
	<u> </u>	igsqcup	<b></b>		<b></b> !	<b> </b>	1						Ī			
ĺ	$\vdash$	igsquare	<b></b>		<u> </u>	<b></b> J	1									
<u> </u>	ــــــ	Ш														
R		1. Sc	il sample	s field screen	ed for vola	itile organic	compoun	ids with a port	able Thermo Enviro	onmental						
m a		j	instrumer indicates	nts Model 580 reading with a	)B photoio a 10.0 eV 5	nization del 80B PID; s	tector (PI) econd nur	D). (First num mber indicates	nber in Field Screen reading with a 10.6	n Data col eV	umn					
r k	1	;	580B PID "*" indica	).) PID values ites sample se	s represent int to labor	t meter resp ratory for ar	onse in panalysis. N	arts per millior D indicates No	n (ppm) above back one Detected.	ground va	alues.	•				

Itratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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### ENVIRITE THOMASTON, CONNECTICUT

Boring N	o.		W-11
Page	1	of	1
File No.	41302	.3	
Child By	, –	TM	R

W-11

Boring No.

Bori	ng Co	o. G2	A GeoE	nvironmental,	Inc.		<u>C</u>	asing	Sampler			Grou	ndwate	r R	cadings	
ore	man	_	Ron H	olman		Тур		HSA	S.S.	Date	e	Time	De	oth	Casing	Stab. Time
GZ	\ E	onme	ntal				/O.D	4-1/4"	3" O.D.	10/31/	/94	0936	23.	6'	out	0 hours
Rep		onme	H. Hol	lauer/C. Wals	h	Han	nmer Wt.		140 LB.							
Date	Star	t 10/3	1/94	End 10	)/31/94	Han	nmer Fall		30"							
Loca	tion	_				Oth	er		-	L			L			
GS.	Elev.			Datum			<del>,</del>								<del></del>	<del> </del>
D P T H	C B S L N W			ample Inform		r	_		imple		_	Stratun		R M K S	Equipment	Installed
H	N W   G S	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	De	scription &	Classification		De	scriptio	n	S		
					1									1.		
										;	1		ı			
ł											l		- 1		NO EQ	UIPMENT ALLED
															11451	ALLED
10							NO SAN	MPLES CO	LLECTED FROM	,						_
	<u> </u>	<u> </u>		<b></b>				TO 20 FC	OT DEPTH	-			ŀ			
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		<u> </u>	ļ	ļ <u></u>	<del> </del>		}						- 1			
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_			<u> </u>		-	<u> </u>							ł			
			<b></b> -							1	20	).O'	- 1			
20	_	A	20/10	20-21.7	17-30	3.3/3.8*	Very dense, t	orown, fine	to coarse	- 1		SAND	-1			-
					54-100/	<del></del>	SAND, some	fine to coa	irse Gravel		21	6'				
		В	4/0	21.7-22	100/4"		Spoon refusa	1			_ ا			2.		
											١	OBBLE	່			
25		С	24/0	24-26	65-67		No recovery				25	.5'				
۵					56-51					ŀ	<u> </u>	·	$\dashv$	3.		
		D	24/12	26-28	55-60	69/60*	Very dense, g SAND	grey, fine to	coarse		,	SAND WASTI	.   e	4.		
					55-60						28.	0				
		Е	24/22	28-30	16-20	37/24*	Top 14": Me fine to coarse	SAND				AND AL				
30					10-28	_	Bottom 8": M fine to coarse	ledium den GRAVEL	se, grey-brown,		30	.0'		5.		_
							•				EXI	END O	r Tion			
													ı			
						<del></del>							ļ			
	1	Soil	amples f	ield screened	for volatile	Organic co	mnounds with	a nortable	Thermo Environm	ental	<u> </u>					
R	1.	Ins	truments	Model 580B	photoioniz	ation detec	tor (PID). (Fi	rst number es readings	in Field Screen Da	ita colum	nn					
m a		PII	) values indicates	represent met	er respons	e in parts p	er million (ppn	n) above bates None I	in Field Screen Da with a 10.6 eV PID ackground values. Detected.	,						
r k	J.	w asi	e maien	ai iioiii മാ ii	20 1001 00	now grade.										
S	4.	Botto	om 6 inch	nes of sample bove spoon oi	black and o	oily, strong	odor observed	•								

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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#### ENVIRITE THOMASTON, CONNECTICUT

Boring No. W-12
Page 1 of 1
File No. 41302.3

Ĺ.								<u> </u>					1.0	Chkd. By:	<b>ЈМВ</b>
Bori	ng Co	. <u>GZ</u>	A GeoEn	vironmental	, Inc.		Casing	Sampler		(	Groun	dwate	r Re	eadings	
Fore	man	_	Al Augu	stine		Тур	HSA HSA	S.S.	Date	e T	îme	De	pth	Casing	Stab. Time
GZ		onme	ntal			I.D.	/O.D. 4-1/4"	3" O.D.	11/2/	94 08	330	23.	.0'	out	0 hours
Rep			H. Holia	auer/C. Wal	sh	— Han	nmer Wt.	140 LB.							
Date	Start	10/3	1/94	End 1	1/2/94	—— Han	nmer Fall	30"	<u> </u>						
Loca	tion		10' east o	f W-10		Oth	er		<u></u>						<u> </u>
GS.	Elev.			Datum		_	<b>4</b>								
D P	C B S L		Sa	mple Inform	nation	<del></del>		Sample		St	ratum	۱	R M	Equipment	Installed
T H	N W G S	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data		n & Classification		Descr	iption	\ <b>\</b>	K		
F				<b>(</b> )	<del> </del>								1.		-
		<del> </del>			1	†——				1					
					<del> </del>	<del> </del>								NO EQ	UIPMENT 'ALLED
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10					1			COLLECTED FROM FOOT DEPTH	M			ŀ	1		•
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15															_
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'													ı		
•					<u> </u>								ı		
20										20.0					
•		Α	24/10	20-22	85-100	1.3/1.7	Very dense, brown, v (cobbles)	weathered ROCK,				İ			
					52-60		(6000100)					ŀ			
		В	24/24	22-24	41-48	138/	Very dense, brown, f SAND and fine to co	ine to coarse parse GRAVEL		COI	BBLE	is			
					42-33	133 *	(cobbles)								
25		С	24/24	24-26	10-12	17/	Medium dense, brow SAND, some fine to	n, fine to coarse coarse Gravel					ļ		-
i					16-24	11.6	(cobbles)			26.0'			- 1		
		D	24/18	26-28	82-132	1.7/ND	Very dense, brown, f SAND	ine to medium			AND	ŀ			
	_				78-52					28.0'					
	-1				-					EXPL	ID OI ORA	non	ŀ		
30					1							1			-
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					1										
													- [		
					<del> </del>	 							- 1		
R		<u>ــــــا</u>	males fiel	d company of C	oz voletile		mounds with a moutab	la Tharma Fauironne	ntal .						
c	1. 5	Instr	mpies fiel uments M	lodel 580B p	hotoioniza	tion detecto	npounds with a portab or (PID). (First numb	er in Field Screen Dat	ta columi	1					
m a		PID	values rep	present mete	er response	in parts per	or (PID). (First number indicates readings or million (ppm) above is. ND indicates None	background values.							
k s		11	34	ampie sein ti	o moorator	, ioi allaiys	iii. 112 indicates 110lle	. D							
	.:4:		- lines				daries between soi	1 40-00 40-0046		. ha as					

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

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### ENVIRITE THOMASTON, CONNECTICUT

 Boring No.
 W-13

 Page
 1
 of
 1

 File No. 41302.3
 JMB

Во	ring	Co.	GZ	A GeoE	nvironmental	, Inc.			Casing	Sampler		Grou	ndwat	er R	eadings	
Fo	rem	an		Al Aug	ustine		Тур	•	HSA	<b>S</b> .S.	Date	Time	De	pth	Casing	Stab. Time
GZ	Ą						I.D.,	/O.D.	4-1/4"	3* O.D.	11/2/94	1420	đ	ry	out	0 hours
Re		viro	nmei	ital H. Holl	lauer/C. Wals	sh	Нап	nmer Wt.		140 LB.						
Da	te S	tart :	11/2	/94	End 1	1/2/94	— Нап	nmer Fall		30"						
ما	catio	on		20' north	of W-3		Oth	er								
GS	.Ele	v.			Datum											
DP	Ţç	B		S	ample Inform	ation			Sa	mple		Stratun	n	R M	Equipment	Installed
Ť	1 N	i w	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data		Description &	Classification	]	Description	n	K		
1:								NO	O SAMPLES CC 0 TO 22 FC	OLLECTED FROM OT DEPTH	[				NO EQI INST	UIPMENT ALLED -
2:	5		A	24/24	22-24	2-2 11-33 64-48 100/6*	5.1/4.5	fine to m	Brown-yellow 10°: Medium do nedium SAND nse, brown, fine ittle coarse Gra			22.0' 3.2' SLUD SAND 25.5' END O	F	1. 2. 3.		
R e m a r k s tr rea fac	2 3 ati	A. Au B. Wi fica	Instruction of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co	uments Nates read values re dicates s refusal a bund in s lines been m	Model 580B p lings with a 10 present mete sample sent to nd split spoo- ample.	hotoioniza 0.0 eV PID r response o laborator n refusal at approxin es and ur	tion detector; second number in parts per y for analys; 25.5 feet because and the bounceder conditions are bounced to be the conditions are bounced to be the conditions are bounced to be the conditions are bounced to be the conditions are bounced to be the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the conditions are the con	or (PID). mber indi million ( is. ND in elow grad daries b	(First number i cates readings w ppm) above bac dicates None Dec.	Thermo Environmen n Field Screen Data with a 10.6 eV PID.) kground values. elected. types, transitio tuations of grou	column	⊃e gradua may occu	i. i	_	r level other Boring No.	W-13

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### ENVIRITE THOMASTON, CONNECTICUT

Page 1 of 1

File No. 41302.3

W-14

Boring No.

C-	67	A Cook		Total			Casina	Complex		Gase		D	andinan	
ioring Co. Ioreman	. 62	Ron Ho	vironmental,	, Inc.	— <sub>———</sub>	_	<u>Casing</u> HSA	<u>Sampler</u> S.S.	Date				Casing	Stab. Time
oreman iZA		KOR HO	<u></u>		— Type	-	4-1/4*	3" O.D.			+	pth 5'	<del>                                     </del>	0 hours
icoEnviro	onme	ntal U Uolle	···/C Wale	-L	•	/O.D. 	4-1/4	140 LB.	11/3/9	1 1000	<del>  ~</del>	<u> </u>	Out	U BOURS
lep. Jate Start	11/3		End 11		_	nmer Wt. nmer Fall		30"		<del></del>	+-		-	<del> </del>
ocation	11/3	/94	End 11	1/3/74	— Harr Othe	-					╁		<del> </del>	<del> </del>
S.Elev.	_		Datum			CI			L		Д			L
<del> </del>	<del></del>	Sa	mple Inform	etion		Τ		ample	<del></del>	Stratui		R	Equipment	t Installed
CB SL NW		Pen./	<del></del>	· · · · · · · · · · · · · · · · · · ·	Field	1		& Classification		Descriptio		R M K	Lalerburen	- Instance
i GS	No.	Rec.	Depth (feet)	Blows/	Test Data	1	Description	& Classification		Descripio		K S		
									J			1.		
				<u> </u>	<u> </u>	]							NO EQUINST	UIPMENT CALLED
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10						] NO	CAMPI ES C	OLLECTED FROM						,
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"	Α	24/0	20-22	4-2	0.2/ND	No recov	егу					i		
				3-2		]				SLUDO	je			
	В	24/6	22-24	12-28	2.1/1.3	Medium	dense, black-b	rown SLUDGE				2.		
				32-25		Top 5": \	Very dense, gr	ey-black,		24.0'		2.		
25	С	24/18	24-26	30-45	184/	Bottom 1	Very dense, gr ILT, trace Roo 13": Very dens to coarse SAI ravel	ie, black-						
				49-50	189 *	coarse G	ravel	ND, trace						_
	D	24/20	26-28	60-42	164/	Very den	se, grey-brown	n, fine to				l		
				46-95	120	Gravel (c	obbles)	ic to coarse		SANE AND				
	Е	24/18	28-30	85-81	25/40	Very den	se, grey-brown	n, fine to		GŔĂŸĬ	EL			
30				34-27		GRAVE	L (cobbles)	to coarse						
~	F	24/20	30-32	14-21	13/19	Very den	se, grey-brown	n, fine to						
			_	32-28		coarse 32	MD, mue mie	e Glavei		32.0'		i		
										END O	F			
										EXPLUKA	HION			
				Ţ		}								
1. Sc	oil sa	mples fiel	d screened for	or volatile	organic con	npounds w	ith a portable	Thermo Environme	entai	indianta				
1 I	readi	ngs with a	a 10.0 eV PII	D: second i	number indi	icates read	ings with 10.6	in Field Screen Da eV PID.)	ta column	indicates				
1	PID "" in	values rep idicates sa	resent mete imple sent to	r response o laborator	in parts per y for analys	r million (r is. ND inc	opm) above ba licates None I	ckground values. Detected.						
1.			amole .											
2. R	.oots	found in s	sampic.											

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### ENVIRITE THOMASTON, CONNECTICUT

W-15 Boring No. Page 1 File No. 41302.3

<u></u>													<u></u> '	Chka. By:	JWR	<u>,                                     </u>
Вог	ing Co	o. <u>G</u> Z	ZA GeoE	nvironmental	l, Inc.			Casing	Sampler		Grou	ndwat	er R	cadings		
,³or	eman	_	Ron Ho	olman		Тур	æ _	HSA	S.S.	Date	Time	Dr	epth	Casing	Stab. Tin	ne
GΖ	A.		4.1				./O.D	4-1/4*	3° O.D.	11/3/94	1510	21	1.0'	out	0 hou	ırs
Rep	oEnvir o.	onme	ntai ClareA	nn Walsh		Han	mmer Wt.		140 LB.		<b>T</b>					
Dat	e Start	t 11/3	3/94	End 1	11/4/94	Han	mmer Fall		30"		<b>T</b>					
Loc	ation		10' north	of W-11		Oth	er –									
GS.	Elev.	_		Datum												
D P	C B S L		Se	ample Inform	nation			S	Sample		Stratun	n	R M	Equipment	Installed	
T H	INW	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	1	Description (	& Classification	L	Description	n	K S			
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							]							1		
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•	<u></u> '	$oxed{oxed}$		L				0 TO 20 F	OOT DEPTH	•		I		l		
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		$oxed{oxed}$					]					I	11	İ		
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20	Ш	<u> </u>	1	<b></b>	<del> </del>	<u> </u>	_			L	20.0'			ĺ		_
		Α	24/22	20-22	12-12	4.2/5.8	Medium of	dense, brown, AND, trace fin	fine to ne Gravel			ŀ		ĺ		
,	$\bigsqcup$	<u></u>	1	<u> </u>	12-20			ise, brown, fine			SAND	,		i		
		В	24/22	22-24	35-40	3.7/6.7*	SĂND, tr	race fine Grav	el (rounded)	1			1	ĺ		
		<u></u>	$oxed{oxed}$		248-100	0/3"	Top 8": N	Medium dense SAND with C	, brown, fine	<u>_</u>	24.6'			i		
25		С	24/18	24-26	19-20	99/60	I Middle 3"	"· Medium de	nse hlack	h	WAST 24.9'	E		ı		_
40					23-30		Bottom 7	to coarse SAN 7": Medium de edium GRAV	ense, brown, /FI.	-			2.	i		
ı	$\bigsqcup$	D	24/20	26-28	12-15	6/2*			, fine to coarse		SAND	,		ĺ		
ļ	$\square$	<u></u>			14-19	ļ		ittle fine to coa		L	28.0'		1	l		
ļ	Ш			<del></del>	<b></b> '	<u> </u>				E	END O	F	1 1	i		
30		<u> </u>	<del>                                     </del>	<del></del>	<u>'</u>		1					••••		ĺ		_
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!			<u></u>	<u> </u>	<u></u> '		<u> </u>	<del></del>					Ш			
R	1. S	oil sa Inst	imples fie	ld screened f	or volatile	organic con	npounds wi	ith a portable 'First number	Thermo Environment in Field Screen Data	ntal a column in	dicates					
m a		read PID	ings with	10.0 eV PID	; second nu	imber indica	ates reading	gs with 10.6 e	V PID.) ackground values. Detected.		B102.7.					
r k	27	"•" i/ Chree	ndicates s	ample sent to	o laborator	y for analys	is. ND ind	licates None I	Detected. ong odor; waste enco	ountered						
S	<u> </u>	at 24	1.6' to 24.9	9' depth.										<del></del>		
tra	tific	atic	n lines	represent	approxir	mate bound	daries be	tween soil	types, transitions of grou	ons may be	a gradua may occu	il. I	late	r level other		
fact	ors t	than	those p	resent at	the time	measureme	ents were	made.	Telegram ar gran	<b>21 tarrar</b>	,			Boring No.	W-1	15

Con 27 N Ver	sultin; lack F	g Eng load lonne	cticut 06	ONMENT ieologists/En 066	vironment	al Scientist	•		THOMASTO	NVIRITE N, CONN	ECTICUT		] 1	Boring No. Page 1 File No. 413 Chkd. By:	
Bori	ng Co	GZ	A GeoEi	vironmental,	Inc.			Casing	Sampler		Grou	ndwat		cadings	JAID
	man		Ron Ho			 Тур	e	HSA	S.S.	Date	Time	1	pth	Casing	Stab. Time
GZ/						_	/O.D.	4-1/4"	3" O.D.	11/4/94	1118	<del> </del>	5.5'	out	0 hours
Geoi Rep.	Enviro	nme	ntal H. Holl	auer/C. Wals	h	Нап	nmer Wt.		140 LB.	<del></del>				1	
-	Start	11/4	/94	End 11	/4/94		nmer Fall		30"			t		1	
Loca		<u> </u>	<u> </u>			Oth	ег	•				t —			
GS.I	ilev.	_		Datum						<b>L</b>		<u> </u>			<u> </u>
D P	C B S L		Sa	mple Informa	ation		1	Se	ample	T	Stratur	n	R	Equipment	Installed
P T H	S L N W G S	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	1		& Classification	İ	Descriptio	n	M K S		
10							NO	SAMPLES CO	OLLECTED FROM	И			1.	NO EQ INST	UIPMENT 'ALLED
15															
<b>2</b> 0											20.0'				
	$\dashv$	Α	24/22	20-22	10-13	22/39	SAND	dense, brown,	fine to medium		SAND	)	2.		
					15-23		<b> </b>				22.0'				
		В	5/5	22-22.4	150/5*	15/16.4	SAND, t	nse, brown, fine trace fine to coa	to coarse irse Gravel						
	_						(cobbles	•					3.		
25		С	24/22	24-26	25-35	180*/	coarse S.	nse, brown-blac AND, little fine	k, fine to to coarse				4.		
			06.55		28-25	145	Gravel (	cobbles)			COBBL	ES			
ļ		D	24/20	26-28	31-24	11/8.6	Dense, b	rown, fine to co to coarse GRA	oarse SAND VEL (cobbles)						
ļ			20.75	00.00	19-19	10/22			an . I m						
ļ		Е	24/20	28-30	12-22	1.8/2.8	Dense, b and fine	rown, fine to ed to coarse SAN	oarse GRAVEL D		20.01				
30					17-18					-	30.0'	.172			•
}										[]	END O EXPLORA	r NOFT			
ļ	$\dashv$														
		_													
}	_									]					
R e m a r k s	2. L	Instr readi mete labor iner f	uments N ngs with r respons ratory for ound at 2	Id screened for fodel 580B pl 10.0 eV PID; e in parts per analysis. NI 21.7 depth. cobbles fro ype odor obs	notoionizat second nu million (p ) indicates	tion detector mber indica ppm) above None Dete	npounds wor (PID). ates readir backgrou	with a portable (First number ongs with 10.6 eV nd values.	Thermo Environme of Field Screen Dat / PID.) PID values ndicates sample ser	ental la column s represent nt to	indicates		<u> </u>		

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 Nack Road Vernon, Connecticut 06066 (203) 875-7655

#### ENVIRITE THOMASTON, CONNECTICUT

30.0

END OF EXPLORATION

W-17

Boring No. W-17 1 Page 1 of File No. 41302.3

(20	دره رد	-/ພວ												<u> </u>	Chkd. By:	JMB
3or	ing Co	o. G2	A GeoE	nvironmental	, Inc.			Casing	Sampler			Grou	ndwate	er Ro	adings	
For	eman		Ron H	olman		Тур	e	HSA	S.S	Dat	c	Time	De	pth	Casing	Stab. Time
GZ	<b>4</b>		-4-1			I.D.	/O.D.	4-1/4"	3" O.D.	11/7/	94	1330	27	.0'	out	0 hours
Rep	Envir	onme	ClareA	nn Walsh		Har	nmer Wt.		140 LB.							
Dat	e Start	t 1 <u>1/</u> 7	//94	End 1	1/7/94	Han	nmer Fall		30"							
Loc	ation		10' north	of W-15		Oth	er									
GS.	Elev.			Datum						-						
D	C B S L		S	ample Inform	ation			S	ample			Stratum	1	R	Equipment	Installed
P T H	INW	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data		Description &	& Classification		De	scription	1	R M K S		
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10							NO	SAMPLES CO	NI FOTED EDOL	4						_
10								0 TO 20 FC	OLLECTED FROM OOT DEPTH	<b>'1</b>						
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15							]									
13					<u> </u>		]				ļ					
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					<u> </u>		1									
20					igsquare		1				20	0.0'				_
		Α	24/24	20-22	4-2	0.3/ND	Loose, b	rown-green-bla	ick SLUDGE			SLUDG	E			
	Ш				4-6		1				2:	2.0'		1		
	Щ	В	24/18	22-24	30-42	0.7/ND	Very den SAND, to	se, brown, fine race fine to me	to medium dium Gravel					İ		
					59-49		, .									
25		C	24/18	24-26	36-46	92/163*	Very den	se, brown, fine ome fine to co	to coarse arse Gravel			SAND				_
					56-66		l				, ا	AND GRAVE	<sub>L</sub>	1		
		D	24/20	26-28	21-30	ND/ND	Very den	se, brown, med	dium to coarse edium Gravel			<b>-</b> -		ĺ		
				- · · ·	22-24		ļ							İ		
		Е	24/18	28-30	10-17	0.4/ND	Dense, b	rown, medium	to coarse SAND,							ı

Soil samples field screened for volatile organic compounds with a portable Thermo Environmental
 Instruments Model 580B photoionization detector (PID). (First number in Field Screen Data column indicates
 readings with 10.0 eV PID; second number indicates readings with 10.6 eV PID.)
 PID values represent meter response in parts per million (ppm) above background values.
 "\*" indicates sample sent to laboratory for analysis. ND indicates None Detected.

21-27

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Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water leve readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. Water level Boring No.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

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#### ENVIRITE THOMASTON, CONNECTICUT

Boring No. W-18
Page 1 of 1
File No. 41302.3

**JMB** 

Chkd. By:

3oring Co. GZA GeoEnvironmental, Inc. Groundwater Readings Casing Sampler Foreman Ron Holman **HSA** S.S. Date Time Depth Casing Stab. Time Type 0915 20.7 4-1/4" 11/8/94 I.D./O.D. 3" O.D. out 0 hours GeoEnvironmental Rep. H. Hollauer/C. Walsh 140 LB. 11/9/94 0915 Hammer Wt. out 0 hours 30" Date Start 11/8/94 End 11/9/94 Hammer Fall Other Location

GS.Flev. Datum CB Sample Information Sample Stratum Equipment Installed N W G S Blows/6" Field Description & Classification Description Pen. Depth No. 1 NO EQUIPMENT INSTALLED NO SAMPLES COLLECTED FROM 0 TO 20 FOOT DEPTH 10 15 20.0' 20 Very dense, brown, fine to medium SAND, trace coarse Gravel (cobble 24/18 20-22 7-14 29/25.8 Α SAND in tip of spoon) 87-120 Top 12": Very dense, brown, fine to coarse SAND, trace coarse Gravel Bottom 12": Very dense, brown, fine to coarse SAND, some coarse 11/13.9 В 24/24 22-24 15-65 23.0 120-118 C 24/18 24-26 24-126 84/ Very dense, brown, fine to coarse SAND and fine to coarse GRAVEL 25 SAND 33-39 66.4\* AND GRAVEL (cobbles) D 37-54 -/4.4 24/10 26-28 Very dense, brown, fine to coarse SAND, little fine to coarse Gravel 59-52 Very dense, brown, fine to coarse SAND and fine to coarse GRAVEL E 24/24 28-30 18-31 -/3.3 (cobbles) 37-36 30.0 30 END OF EXPLORATION

Soil samples field screened for volatile organic compounds with a portable Thermo Environmental
Instruments Model 580B photoionization detector (PID). (First number in Field Screen Data column indicate
readings with 10.0 eV PID; second number indicates readings with 10.6 eV PID.) PID values represent
meter response in parts per million (ppm) above background values. "\*" indicates sample sent to
laboratory for analysis. ND indicates None Detected.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

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#### ENVIRITE THOMASTON, CONNECTICUT

Boring N	lo.		W-19
Page	1	of	1
File No.	41302	.3	

**ЈМВ** 

Chkd. By:

Boring Co. GZA	A GeoEnvironmental, Inc.		Casing	Sampler		Groun	dwater Re	adings	
Foreman	Al Augustine/Ron Holman	Туре	HSA	S.S.	Date	Time	Depth	Casing	Stab. Time
GZĄ .	. •		4-1/4*	3" O.D.	11/10/94	0900	25.1'	out	0 hours
GZA GeoEnvironmen Rep.	tal H. Hollauer/C. Walsh	Hammer Wt.		140 LB.					
Date Start 11/9/	94 End 11/9/94	Hammer Fall		30"					
Location		Other	•	·					

GS.I	Elev.			Datum		_				
D P	СB		Sa	ample Informa	ation		Sample	Stratum	R	Equipment Installed
T H	SL NW GS	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	Description & Classification	Description	R M K S	
10							NO SAMPLES COLLECTED FROM 0 TO 15 FOOT DEPTH		1.	NO EQUIPMENT INSTALLED
15		A	24/3	15-17	4-5 6-5	109/100	Sample A: Loose, black, fine to medium SAND, trace fine to medium Gravel, trace fiberboard Sample B:	15.0'	2.	-
,		ВС	12/8 24/18	17-18 18.5-20.5	6-180 51-41	252/213 391/305	Very dense, black, fine to medium SAND, trace medium Gravel, trace fiberboard Sample C:	SAND (WASTE)	2. 3.	
20		D	24/20	20.5-22.5	55-71 37-41 27-21	438/ 258*	Top 2": Very dense, black, fine SAND and PLYWOOD Middle 6": Very dense, white, fine to coarse GRAVEL Bottom 10": Very dense, dark grey, fine to medium SAND, trace fine	(***1012)	3.	
		Е	24/4	22.5-24.5	22-32	212/-	Sample D: Very dense, black, fine to coarse SAND, trace fine to coarse Gravel	23.0'	4.	
25		F	24/12	24.5-26.5	37-39 62-42	12/-	(cobbles) Sample E: Top 2': Very dense, black, fine to coarse SAND and coarse GRAVEL Bottom 2": Very dense, coarse GRAVEL (cobbles) Sample F:	SAND AND GRAVEL 26.3'	5.	-
		G	3/3	26-26.3	200/3*	182/-	coarse SAND, some coarse Gravel (cobbles)	END OF EXPLORATION	<i>J</i> .	
30							Sample G: Very dense, black, fine to coarse SAND			-

Soil samples field screened for volatile organic compounds with a portable Thermo Environmental Instruments Model 580B photoionization detector (PID). (First number in Field Screen Data column indicates readings with a 10.0 eV PID; second number indicates readings with a 10.6 eV PID.)
 PID values represent meter response in parts per million (ppm) above background values.
 \*\*\* indicates sample sent to laboratory for analysis. ND indicates None Detected.
 Slightly oily, strong odor.
 Scrap metal and hemp rope in hole.
 Waste material from 15 to 23 feet below grade.
 Auger refusal at 26' depth, attempted to advance spoon to 28' depth, refusal at 26.3' depth.

c m a r

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. W-19

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### ENVIRITE THOMASTON, CONNECTICUT

Boring !	٧o.	_	W-20
Page	_1	of	1
File No.	41302	.3	

(20	3) 6/3	-1003									_	Chkd. By:	JMB
Bor	ing Co	. GZ	A GeoE	nvironmental	, Inc.		Casing	Sampler		Grou	ndwater	Readings	
For	eman		Al Aug	ustine		Тур	HSA	S.S.	Date	Time	Deptl	n Casing	Stab. Time
GZ	A Envir					I.D.,	O.D. 4-1/4*	3" O.D.					
Rep	DENVIE D.	onme	ntai H. Holl	auer/C. Wal	sh	Han	mer Wt.	140 LB.					
Dat	e Star	11/1	0/94	End 1	1/10/94	Нап	mer Fali	30°					
Loc	ation	_				Othe	er ———						
GS.	Elev.			Datum									
D P T	ÇВ		Sa	ample Inform	ation			Sample		Stratun	n R	Equipme	nt Installed
TH	S L N W	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	Description	& Classification		Description	n R N K S		
<del> "</del>	103	140.	RCC.	(lect)	+-	Test Data						<b>⊣</b>	-
ſ	H				-				ĺ		[ ]	"I	
	$\vdash$						NO SAMPLES C	OLLECTED FROM	.			NO FO	OUTPMENT
	-						0 TO 5 F	OOT DEPTH	·			INS	QUIPMENT TALLED
	<u> </u>	-					Sample A:			5.0'			
5	├─	A	24/24	5-7	3-6	0.5	Top 12": Loose, dark	brown, Clayey	┟	5.0		1	_
	<del> </del>	**	27/27	3.7	6-7		Bottom 12": Loose, da fine to medium SAND	ark brown,		SILT		ŀ	
	<del> </del>	В	24/24	7-9	7-3	0.2	Sample B:		İ	AND SAND	, 1		
	<del> </del>		21/21		3-4		Loose, dark brown, fir SAND, trace coarse G Sample C:		}	0, 1, 2			
J	$\vdash$	С	24/16	9-11	3-5	0.2	Top 6": Loose, dark b trace Organics Bottom 10": Very den	rown SILT,	]	10.0'		ļ	
10	_		31/10		21-47		Bottom 10": Very den coarse SAND	se, fine to	<b>-</b>			l	-
		D	24/18	11-13	25-86	ND	Sample D:	inge, fine to	1			ŀ	
ı	$\vdash$		21/10	11.10	32-37		Very dense, brown-ora coarse SAND, some fi Gravel (cobbles)	ne to coarse		GRAVEL SAND	LY		
•	$\vdash$	Е	24/17	13-15	27-51	0.5	Sample F:	range-hroum	1	GEL			
1			21/11		95-103	- <del>"</del>	Top 7": Very dense, o fine to coarse SAND Bottom 10": Weather	ed ROCK	j			ļ	
15	<del>                                     </del>	F	5/5	15-15.4	150/5*	ND •	Sample F: Very dense, grey-brow			15.4'	2	2.	_
ł	_	÷	3,3	10 10.1	150/5		medium SAND, trace Gravel	fine to coarse	],	END O	F	ļ	
	-				<del>                                     </del>		<b>5.4.0.</b>		]			ļ	
	<del>                                     </del>			<del></del>	<del>                                     </del>				1				
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R			1		1						1	_1	
e m		1. So	il sample	s field screen	ed for vola	tile organic	compounds with a 10.0 ector (PID). PID value	eV portable Thermoss represent meter re	Environnesponse in	nental parts			
a		Ī	per millio	on (ppm) aboates None De	ve backgro tected.	und values.	ector (PID). PID value "*" indicates sample se	nt to laboratory for a	inalysis.	•			
k s		2. Ai	iger refu	sal at 15.4' de	pth.								
	L											<del></del> -	

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

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#### ENVIRITE THOMASTON, CONNECTICUT

Boring !	Vo.		W-21
Page	1	of	1
File No.	41302	2.3	

**JMB** 

W-21

Chkd. By:

Boring Co. GZA GeoEnvironmental, Inc. Groundwater Readings Casing <u>Sampler</u> **HSA** S.S. Time Depth Stab. Time Foreman Al Augustine Туре Date Casing **GZA** I.D./O.D. 4-1/4" 3" O.D. 11/11/94 1032 out 0 hours GeoEnvironmental Rep. H. Hollauer/C. Walsh 140 LB. Rep. Hammer Wt. Date Start 11/11/94 End 11/11/94 Hammer Fall 30" Other Location GS.Elev. Datum Sample Equipment Installed Sample Information Stratum PTH N W Field Description & Classification Pen./ Rec. Depth (feet) Blows/ Description K S No. Test Data 1. NO EQUIPMENT INSTALLED NO SAMPLES COLLECTED FROM 0 TO 10 FOOT DEPTH 10.0' Top 6": Medium dense, dark brown, fine SAND, some Silt Bottom 6": Medium dense, dark brown SILT, trace Organics (Roots) 10 8-6 Α 24/12 10-12 ND 5-6 7-7 В 24/18 12-14 ND Medium dense, dark brown SILT, little fine Sand, trace fine to SILT 5-5 coarse Gravel 5-4 C 24/22 14-16 2.5 Loose, orange-brown SILT, little 3.4 16.0 Top 14": Dense, orange-brown, fine to medium SAND, trace coarse Gravel Bottom 8": Dense, white, medium SAND, trace coarse Gravel (cobbles) D 24/22 16-18 13-36 0.5 \* 31-23 E 3/0 18-18.3 150/3" No recovery F 24/0 18.3-20.3 133-190 No recovery 20 153-103 SAND Very dense, brown-grey, fine to coarse SAND, trace fine to coarse G 24/2 22-24 22-35 Gravel (cobbles) 25-18 54-57 Н 24/6 24-26 12 Very dense, brown, fine to coarse SAND, trace fine to coarse Gravel 25 70-63 Very dense, dark brown, fine to coarse SAND, little fine to coarse Gravel (cobbles) 24/16 26-28 38-32 1.5 27-53 END OF EXPLORATION

e m a r k  Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values. "\*" indicates sample sent to laboratory for analysis. ND indicates None Detected.

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

### ENVIRITE THOMASTON, CONNECTICUT

W-22 Boring No. Page 1 1 File No. 41302.3

Chkd. By:

JMB

	ROL	ing Co	. UZ	A Georg	nvironmentai,	inc.		Casing	Sampler		Grou	nowati	er Ke	adings	
-	Fore	eman		Al Aug	ustine		 Тур	e HSA	S.S.	Date	Time	De	pth	Casing	Stab. Time
	GZ/	<u>4</u> .						/O.D. 4-1/4"	3" O.D.						
	Rep	Enviro	onme		auer/C. Wals	h	Han	nmer Wt.	140 LB.						
	Date	e Start	11/1	1/94	End 11	/11/94	— Han	nmer Fall	30"						
	Loca	ation		<del></del>		-	Oth	er		*****					
	GS.I	Elev.			Datum						-			=	
	D	C B S L		Sa	ample Inform	ation		S	ample	···	Stratun	n	R	Equipmen	t Installed
	P T H	SL NW GS		Pen./ Rec.	Depth (feet)	Biows/	Field Test Data	Description &	& Classification		Description	n	M K S	-	
													1.		_
										1		i			
								NO SAMPLES CO	DLLECTED FROM	1				NO EQ	UIPMENT
								010310	OT DEPTH	İ			I	INSI	ALLED
	_							<b>.</b>			5.0'				
	3		Α	6/6	5.5-6.0	150/6*	ND	Very dense, dark brown coarse SAND, some Tir	n, fine to mber, little	Γ					_
			В	24/8	6.5-8.5	14-15		fine to coarse Gravel			FILL				
						29-5		Top 4": TIMBER Bottom 4": Weathered	SCHIST	ŀ	FILL				
1			С	24/0	8.5-10.5	15-8		No recovery							
1	40					9-10					10.51				
	10		D	24/20	10.5-12.5	3-4	0.3	Loose, brown SILT, tra	ce Organics		10.5'		ŀ		_
						5-6					SILT		ŀ		
			E	24/17	12.5-14.3	36-56	ND	Top 2": Very dense, br	own SILT,	į	13.0'		ı		
	,					56-100,	/3"	Top 2": Very dense, br trace Organics Bottom 15": Very dens coarse SAND, little fine	e, fine to		SAND				
								(cobbles)	Gravei		14.3'	╤┤	2. 3.		
١	15									1	END O EXPLORA	TION	1		_

m

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25

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental
Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts
per million (ppm) above background values. ND indicates None Detected.
 No samples sent to laboratory.
 Auger refusal at 14.3' depth.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

## ENVIRITE THOMASTON, CONNECTICUT

 Boring No.
 W-23

 Page
 1
 of
 1

 File No.
 41302.3
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(203) 813-10			.]					hkd. By:	JMB	
Boring Co. C	SZA GeoEnvironmental, Inc.		Casing	Sampler		Groun	dwater Re	adings		
Foreman	Al Augustine	Туре	HSA	S.S.	Date	Time	Depth	Casing	Stab. Time	
GZA		I.D./O.D.	4-1/4"	3" O.D.	11/14/94	1240	16.2'	out	0 hours	
GeoEnvironn Rep.	H. Hollauer/C. Walsh	Hammer Wt.		140 LB.						-
Date Start 11	/14/94 End 11/14/94	Hammer Fall		30"						
Location	20' west of W-01	Other		·						

	Elev.			Datum				<del></del>	r	
D P	CB			mple Inform			Sample	Stratum	R M	Equipment Installed
D P T H	CB SL NW GS	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	Description & Classification	Description	R M K S	
							NO SAMPLES COLLECTED FROM 0 TO 5 FOOT DEPTH		1.	NO EQUIPMENT INSTALLED
_								5.0'		
5		Α	24/20	5-7	6-9	1.4	Medium dense, brown, fine to coarse SAND, little Silt, little fine to			
					7-20		coarse Gravel			
	$\sqcup$	В	24/18	7-9	30-25	0.5	Very dense, brown-grey, fine to coarse SAND, some fine to coarse			
	igsqcup				26-27		Gravel	SAND		
10		С	24/28	9-11	16-28	2.0 *	Dense, brown-grey, fine to coarse SAND, some fine to coarse Gravel	1		
10					26-22		or a very some time to coarse Oraver			
		D	24/22	11-13	22-23	ND	Dense, brown-orange, fine to coarse SAND, some fine to coarse Gravel			
					20-17			13.0'		
		Е	24/18	13-15	18-15	0.7	Dense, brown-orange, fine to coarse SAND, some fine to coarse Gravel	COBBLES		
	$\Box$				19-14		Top 11": Very dense, weathered	13.9'	i	
15		F	24/16	15-17	62-30	ND	COBBLES Bottom 5": Very dense, brown-	]		
					23-19		Bottom 5 <sup>n</sup> : Very dense, brown- orange, fine to coarse SAND and fine to coarse GRAVEL			
	<del>  </del>	G	24/20	17-19	17-17	ND		SAND AND		
	H				20-32		Dense, brown-orange, fine to coarse SAND and fine to coarse GRAVEL	GRAVEL		
	$\vdash \vdash $	Н	24/18	19-21	34-35	ND	Very dense, brown-orange, fine to			
20	$\vdash \vdash \vdash$		- 1,10		40-34		Very dense, brown-orange, fine to coarse SAND and fine to coarse GRAVEL	21.0'		
	<del>   </del>	ī	24/24	21-23	11-12	ND	Medium dense, brown-orange, fine to	SAND		
					10-11		medium SAND	23.0'		
		$\dashv$			1			END OF		
	-				<del>                                     </del>			EXPLORATION		
25		$\dashv$			<del>                                       </del>					
		-			<del> </del>					
		$\dashv$		· <del>_</del>	<del> </del>					
	$\dashv$			_	<del> </del>					
	<del></del>				<b> </b>					
								_ 1		

R e m a r k

 Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values. \*\*\* indicates sample sent to laboratory for analysis. ND indicates None Detected.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 Nack Road Vernon, Connecticut 06066 (203) 875-7655

#### ENVIRITE THOMASTON, CONNECTICUT

W-24 Boring No. Page 1 of 1 41302.3 File No. Chkd. Bv: **IMR** 

۲			. G7	A GeoF	nvironmental	. Inc.			Casing	Sampler			Grour	dwate	r Re	adings	
		man		Al Aug		,	— тур	2	HSA	S.S.	Dat	<u>.                                    </u>	Time	Dep	_	Casing	Stab. Time
1	ore SZA		_	- L Aug				/O.D.	4-1/4"	3" O.D.	11/15		1100	16.0		15.0'	5 minutes
19	ico lep.	Enviro	onme	ntal H Holi	lauer/C. Wal	sh		nmer Wt.		140 LB.		, - ,	-130	10.	_	1	
1	•	: Start	11/1			1/15/94	_	nmer Fall		30"	<del></del>	-				<del> </del>	
ł		tion	_		of W-01	1/15/74	Othe									<del> </del>	
L		elev.	_	15 804(1)	Datum	<del>.</del>		<b>-1</b>			L					<u> </u>	l
-	_	_	<del></del>	S	ample Inform	ation		r	Sa	mple		T	Stratum	. 1	R I	Equipment	Installed
	D P T H	CB SL NW		Pen./	Depth	Blows/	Field			Classification		De	scription		R M K S	2-qp	
L	Ĥ	ĠŚ	No.	Rec.	(feet)	6"	Test Data								S		_
l						<del>        _   _   _   _   _</del>									1.		
								NC	SAMPLES CO	LLECTED FROM	νī			ľ			
l									0 TO 5 FO	OT DEPTH	-					NO EQ	UIPMENT ALLED
l								ļ						ļ			
	5					ļ						5.	0'				_
	-		Α	24/20	5-7	8-7	2.2/5.0	Sample . Medium	A: i dense, brown, i	ine SAND and			SAND	ŀ			
						6-5	<u> </u>	SILT	,,			İ	AND SILT	ſ			
l			В	24/20	7-9	4-3	181/15*	Sample Loose, b	B: prown SILT, trac	e fine				ľ			
	ļ					5-6		Gravel,	prown SILT, trac trace fine Sand			9.	0'				
l	10		С	24/3	9-11	10-50	>2100/	Sample Very de	nse, dark brown	SILT and					2. 3.		
						14-4	800	RUBBE	ER '					1			
	ļ		D	24/24	11-13	3-4	856/	Sample Loose, d	D: lark brown SILT	and green		ł		- {	3.		
ø						4-5	150	RUBBE	ER	Ü		•	ILT AN GREEN	j l			
			Е	24/24	13-15	3-3	>5700*/	Sample Loose, d	E: lark brown SILT	and green			RUBBE WASTE		3.		
	15					4-4	-	RUBBE	ER .	Ū		]	•				
			F	24/6	15-17	7-15	429/-	Sample Dense, o	dark brown, fine	to medium							
	ı					29-20		SAND, i Gravel	little Silt, trace o	coarse		1	7.5'				
l			G	24/12	17-19	29-33	1034/-	Sample Top 6":	G: Very dense, bla	ck, oily,		_			4. 5.		
						24-34		coarse C	Very dense, bla oarse SAND, so Gravel				SAND AND	1			
	20		Н	24/20	19-21	26-32	103*/-	Bottom to coarse	6": Very dense, e SAND and GI	brown, fine RAVEL		1	GRAVE	L	- [		
						35-30		Sample     Very der	H: nse, brown, fine	to coarse		ऻ	1.0'		1		
ĺ						-		SAND a	ind GRAVEL			EX	END OI PLORA	TION			
	ŀ				<u> </u>	<b> </b>											
1	-					<del> </del>									İ		
	25		$\dashv$												1		_
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	-	$\dashv$	_			<b>-</b>											
	ŀ	$\dashv$	_			<del> </del>											
<u> </u>	4							<u> </u>				L			丄		
I		1. S	oil sai (Firs	mples fie	ld screened f	or volatile	organic con	ipounds w	vith a portable p	hotoionization det 10.0 eV 580B PID:	ector.	umb	er				

in Field Screen Data column indicates readings taken with 1.7 eV HNu for headspace readings.)

PID values represent meter response in parts per million (ppm) above background values.

"\*" indicates sample sent to laboratory for analysis. ND indicates None Detected.

2. Spoons coated with black oil.

3. Sample oily, black.

4. Heavy sheen on water.

5. Waste material at approximately 9 to 17.5 feet below grade.

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Itratification lines represent approximate boundaries between soil types, transitions may be gradual. Water leve readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. Water level

W-24 Boring No.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

#### ENVIRITE THOMASTON, CONNECTICUT

Boring No. W-25
Page 1 of 1
File No. 41302.3

(20.	3) 8/3-	/635										1	Chkd. By:	JMB
Bor	ing Co.	. GZ	A GeoEr	nvironmental	l, Inc.		Casing	Sampler		Grou	ndwate	r Re	eadings	
For	eman	_	Ron Ho	lman		Тур	e HSA	S.S	Date	Time	Dep	pth	Casing	Stab. Time
GZ/	A Enviro		-+-1			I.D.	/O.D. 4-1/4"	3" O.D.	11/21/94	1145	15.0	0'	15.0'	15 minutes
Rep		mnici	H. Holla	auer/C. Wal	sh	Han	nmer Wt.	140 LB.						
Date	e Start	11/2	1/94	End 1	11/21/94	Han	nmer Fall	30"		<u></u>	$oxed{oxed}$	_		
Loc	ation 2	23' so	outh of W-	-24		Oth	er			<u></u>	<u> </u>			<u> </u>
GS.I	Elev.			Datum								_		
D P	C B		T	mple Inform		<del></del>	-{	Sample		Stratun	n	R M K S	Equipment	t Installed
Ť H	N W G S	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	Description	& Classification	D	escription	n	K S	ĺ	
	<del>                                     </del>				1						$\Box$	1.		
ı	$\Box$				1		1		_		1			
	$\Box$				1	†	NO SAMPLES C 0 TO 5 F	COLLECTED FROM OOT DETPH	1				NO EQ	UIPMENT
ļ	$\Box$	$\neg$		<del></del>	1		1		1		1		INSI	TALLED
ا	П				1	<del>}</del>	1			5.0'				
اد		Α	24/24	5-7	8-12	2.6 *	Medium dense, brown	1-orange, fine					ĺ	_
ı					9-7		SAND, some Silt			SAND	,	1	l	
ı		В	24/12	7-9	7-6	1602	Medium dense, grey-b SAND, trace Silt	rown, fine					l	
ı					5-5		ŀ		٩	9.0'		2.	l	
10		С	24/5	9-11	3-3	1268 *	Loose, black, oily, fine Silt, trace Rubber	: SAMD, some		SAND A	ND		ĺ	_
10					4-3		Top 12": Loose, dark	brown, oily,	,	RUBBE (WASTI	ER		l	
ļ		D	24/24	11-13	3-4	1206	Bottom 12": Loose, gr SAND, some Silt	rey-brown, fine		12.0		2. 3.	ĺ	
		!	<u></u>		4-6		l '	-brown. fine				4.	İ	
' I	$\Box$	Е	24/14	13-15	3-3	290 *	Top 12": Loose, grey- SAND, trace Roots Bottom 2": Very dens	se, white, fine				I	i	
15	$\sqcup$		-		20-100,	<del>`                                    </del>	to medium GRAVEL	(Quartz)		SAND AND	) [	1	İ	_
!	$\sqcup$	F	24/10	15-17	96-47	336	Very dense, brown-gro coarse SAND and GR	ey, fine to RAVEL		GRAVE			ł	
ļ	$\longmapsto$				27-18	<del> </del>	Medium dense, grey-b coarse SAND and GR						İ	
!	<b>├</b> ─┤	G	24/24	17-19	15-15	142	coarse SAND and GR	<b>AVEL</b>					ı	
1	$\longrightarrow$				12-13	<del>                                     </del>	-		-	19.0'		5.	ı	
20	$\vdash \vdash$		$\longrightarrow$		<del></del>	ļ	1		E	END O XPLORA	TION		ı	_
- 1	<del></del>	$\dashv$	<del>  </del>				-				1		l	
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	<del></del>	$\dashv$	<del>  </del>		<del>                                     </del>	<del> </del>	-					1	l	
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1	$\overline{}$	$\dashv$	$\vdash$		1		1				1		İ	
R	1. 5	Soil s	amples fi	eld screened	for volatil	organic co	Iompounds with a 10.0 eV	V portable Thermo E	nvironment	 al		_		
e m	 	Inst	truments million (	Model 580B	photoioniz	ation detec	etor (PID). PID values in indicates sample sent	represent meter response	onse in parts	;				
a r	2. 1	ND Rubt	indicates	None Dete	cted.	• • • • • • • • • • • • • • • • • • • •		10 1	.,					
k s	3. F 4. I	Fleck Head	pery textures of red and and and and and and and and and an	and green rub ading on top	ober in sam	iple.								
٠,		117	**	T. 7. 10'C										

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

#### ENVIRITE THOMASTON, CONNECTICUT

Boring N	o.		W-26							
Page	1	of	1							
File No. 41302.3										
Chkd. By	. –	JМ	<u>в</u>							

Hor.	ing C	o. G7	'A GeoE	nvironmental	l. Inc.			Casing	Sampler		Gro	undwat	er R	leadings	
	eman	_	Al Augu		,	— туре	c	HSA	S.S.	Date	· 1		epth	<del></del>	Stab. Time
GZ	Α						/O.D.	4-1/4"	3" O.D.	11/22/		+	4.7'	17.0'	0 hours
Geo Rep	Enviro.	onme	ntal H. Holl	auer/C. Wals	sh	•	nmer Wt.		140 LB.			1			
l -	e Start	t 11/2	1/94	End 1	1/21/94	— Han	nmer Fall		30"		1	_	_	†	
Loc	ation	10' w	est of W-2	25		Othe	er					$\top$		†	
GS.	Elev.			Datum											<del></del>
D P	СВ		Sa	ample Inform	nation			S	ample		Stratu	m	R M	Equipment	t Installed
T H	S L N W G S	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	]	Description &	& Classification		Description	on	K S		
<u> </u>	103	No.	Rec.	(Icer)	+	1 CSI Data	<del> </del>	··· · · · · · · · · · · · · · · · · ·					1.		. <del>-</del>
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	$\vdash$	<del> </del>	<del>  </del>		+	<del> </del>	l NC	) SAMPLES CO	OLLECTED FROM	.				NO FO	UIPMENT
		<del></del>	<del>  </del>		+	<del> </del>	· ```		OOT DEPTH	· I				INST	TALLED
	-	<del> </del>	<del>                                     </del>		+	+	1			1	5.0'			1	
5		A	24/22	5-7	4-3	0.5	Loose, 1	red-brown SILT	. some fine	İ				1	-
		$\vdash$	<del>  - ''  </del>		3-4	<del>                                     </del>	Sand			1	SAN			1	
	$\vdash$	В	24/20	7-9	9-15	8.0	Medium SILT	ı dense, brown,	fine SAND and		ANI SILT			İ	
		$\vdash$			17-15		Top 7":	Medium dense SAND and coars	, medium to	1	9.0'			1	
	$\Box$	С	24/14	9-11	26-17	108	coarse S Middle	AND and coars 2": Timber WC	se GRAVEL OOD	1	SAND		2.	1	
10					13-6		Bottom fine SA	2": Timber WC 5": Medium de ND and SILT, I	inse, brown, ittle Organics		9.6' GRA		<b>↓</b> ∤	1	-
	H	D	24/20	11-13	5-4	160 *	Medium	n dense, brown,	fine SAND and	i	SAN ANI	)		1	
į į				· <del>···············</del>	8-19		SILT (w	vood in tip of sp	ioon)	-	SIL7 13.0'	i		1	
		Е	24/8	13-15	25-30	11	Very de	ense, fine to coarse GRA	rse SAND	Ī				1	
ا م					25-26						CAN	_		1	
15		F	24/5	15-17	35-34	11	coarse S	nse, grey-brown	i, fine to to coarse	- 1	SANI ANI	)		1	_
					40-36		l	EL (cobbles)	- Carta	1	GRÄV	EL		İ	
		G	24/12	17-19	26-30	0.5	coarse S Gravel	nse, grey-brown SAND, trace fin	e to coarse				}	1	
					23-28		Gravei				19.0'		]	l	
20							]				END (	OF ATION	]	l	_
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ļ !		$\sqcup$	<b></b>		<del> </del>									i	
	igsqcup	<u> </u>	<b>  </b>		<b></b>	<b> </b>	!							l	
<u> </u>	لبا	ليا		,		لـــل	L						Ш		
R e m a	1.	Inst	truments	Model 580B	photoioniz	zation detect	e Thermo Environme r in Field Screen Dat it meter response in sent to laboratory	ental ta colum	n						
r k	2.	Head	ispace rea	ading measur	red with a 1	10.6 eV 580F	3 PID.								

ptratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

#### ENVIRITE THOMASTON, CONNECTICUT

Boring No	0.		W-27									
Page	1	of	1									
File No. 41302.3												
Chkd. By:	: -	JM	В									

W-27

30	ring	Co. G	ZA GeoE	nvironmental	, Inc.			Casing	Sampler			Groun	dwate	r R	eadings	
TF0	rema	תו	Ron He	olman		— тур	e	HSA	S.S.	Date		Time	Dej	pth	Casing	Stab. Time
gz	'A	. –					/O.D.	4-1/4"	3" O.D.	11/22/	94	1400	13.	9'	15.0'	0 hours
Re		vironm	ntal H. Holi	lauer/C. Wals	sh	Han	nmer Wt.	<u>-</u>	140 LB.							
Da	te St	art 11/	22/94	End 1	1/22/94	— Han	nmer Fall		30*				l			
ما	catio	n _				Oth	er									
GS	.Elev	v		Datum	_		_									
D P	ç	В	S	ample Inform	ation			Sa	ımple		5	Stratum	· ]	R M	Equipment	Installed
ΤH	N G	W S No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data		Description &	Classification	1	Des	cription	ì	K		
۳	╁	0 1.40.	Acc.	(1001)	<del> </del>	Test Data		<del></del>		<del>-  </del>			$\overline{}$	1.		_
	$\vdash$	╁		-	<del> </del>		1			:			i	4.		
	$\vdash$	╅╾	<del> </del>		1		l <sub>N</sub> c	SAMPLES CO	DLLECTED FROM	,			1		NO FO	UIPMENT
	-	+						0 TO 5 FO	OT DEPTH						INST	UIPMENT ALLED
		+	<u> </u>		<del></del>					ŀ	5.0'	,				
	⁵├─	A	24/15	5-7	9-12	0.2	Medium	n dense, orange-	brown, fine to	<u> </u>						-
	$\vdash$	+		<u> </u>	12-11	<del></del>	coarse S	n dense, orange- SAND, little fine	: Gravel	1						
Ī	$\vdash$	В	24/10	7-9	11-5	4.3 *	Loose, o	orange-brown, fi little fine Grave	ne to coarse			SAND				
	$\vdash$	+			5-4											
		C	24/24	9-11	4-5	199	Loose, to and SIL	black-brown-gre T, trace Wood	en, fine SAND							
10					3-5		Top 2":	Medium dense			11.0	0,				-
		D	24/20	11-13	9-10	610	fine SA	ND 18": Medium d IC-LIKE materi		ľ				2.		
•					12-8		l				ν	VASTE	:	3.		
1		Е	24/22	13-15	5-6	615	Top 2":   PLAST	Medium dense IC-LIKE materi	, black, al				İ			
	. 🗀				15-24		Bottom fine to c	20": Medium d coarse SAND	ense, brown,	ļ	15.5	5'				
1:	, 	F	17/12	15-16.4	8-22	617	Top 3":	Black, PLASTI	C-LIKE					4.		_
]					150/5"		material Bottom	i 9": Very dense coarse SAND an	, brown-grey			SAND				
1							coarse (	SRAVEL	d fine to		G	AND RAVE	L			
İ		G	24/23	18-20	7-12	96 °	Medium	n dense, grey-bro SAND and fine t	own, fine to							
20					16-18		GRAVI	EL	o coarse	L	20.0	0'		5.		_
2	$'$ $\Box$									Γ	EVP	END OI LORA	F	Э.		_
1										l	LAI	LOKA				
	L									ŀ					]	
	$\perp$									1						
2.5	Ŀ									j						
-										1						
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l																
	$\vdash$				<b></b>					1						
	lacksquare				لـــــــا											
R	1	1. Soil Ins	samples f	ield screened Model 580B	for volatile	organic co	mpounds for (PID)	with a 10.0 eV	portable Thermo E present meter respo	nvironmen	ntal rts					

Instruments Model 580B photoionization detector (PID). PID values represent meter response in per million (ppm) above background values. """ indicates sample sent to laboratory for analysis. ND indicates None Detected.

2. Black, layered vesicular plastic-like material with red oil.

3. Red oil.

4. Oily sheen in top of spoon.

5. Waste material 11 to 15.5 foot depth.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. Boring No.

27 Nack Road Vernon, Connecticut 06066 (203) 875-7655

### ENVIRITE THOMASTON, CONNECTICUT

 Boring No.
 W-28

 Page
 1
 of
 1

 File No. 41302.3
 41302.3
 41302.3
 41302.3

**JMB** 

Chkd. By:

loring Co. GZA GeoEnvironmental, Inc.		Casing	Sampler	_	Groun	dwater Re	adings	
Foreman Ron Holman	Туре	HSA	S.S.	Date	Time	Depth	Casing	Stab. Time
GZA GeoEnvironmental	I.D./O.D.	4-1/4"	3" O.D.	12/6/94	0925	12.0'	13.0'	0 hours
Rep. ClareAnn Walsh	Hammer Wt.		140 LB.					
Date Start 12/6/94 End 12/6/94	Hammer Fall		30"					
Location	Other							

Loca	ation	_				Othe	r L				
GS.I	Elev.			Datum						·	
D	C B S L		Sai	nple Inform	ation		Sample	Stratum	R	Equipment	Installed
D P T H	INW	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	Description & Classification	Description	R M K S	]	
					<u> </u>				1.		
					ļ		NO SAMPLES COLLECTED FROM		Ì	<b> </b>	
				••-		<u> </u>	0 TO 5 FOOT DEPTH			NO EQU INST	JIPMENT ALLED
				<del></del>	<del> </del>			5.0'			
5		Α	24/6	5-7	11-8	ND	Medium dense, brown, fine to medium SAND, trace Gravel				
					7-6		SAND, trace Graver				
		В	24/0	7-9	4-3		No recovery	SAND AND			
				<u>.</u> .	3-3		Loose dark brown-grey fine SAND	SILT	ı		
10		С	24/16	9-11	2-2	0.1	Loose, dark brown-grey, fine SAND and SILT, trace fine Gravel, trace Organics				
					2-4		_	11.5'			
		D	24/10	11-13	4-13	0.1 *	Top 6": Medium dense, dark brown SILT and fine SAND Bottom 4": Medium dense, grey, fine to coarse SAND, little fine to				
,			<b> </b>		11-6		to coarse SAND, little fine to coarse Gravel		- }		
		Е	24/12	13-15	16-9	1.9	Medium dense, grey, fine to coarse GRAVEL and SAND				
15				<del></del>	12-20			GRAVEL	- 1		
		F	24/8	15-17	28-30	5.6	Very dense, grey, fine to coarse GRAVEL and SAND	AND SAND			
			-		22-30						
		G	24/18	17-19	44-19	14.9	Medium dense, grey, fine to coarse GRAVEL and SAND				
			1		20-13						
20		Н	24/2	19-21	35-44	0.1	Very dense, grey, fine to coarse GRAVEL and SAND	24.0			
			<del>                                     </del>		43-42			21.0'			
	-				<del> </del>			END OF EXPLORATE	ION		
			<del></del>						1		
			<del>                                     </del>		1				- }		
25											
	_				<del> </del>						
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			<del>                                     </del>		<u> </u>						

R e m a r k

stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values. "\*" indicates sample sent to laboratory for analysis. ND indicates None Detected.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

#### ENVIRITE THOMASTON, CONNECTICUT

Boring No. W-29 Page 1 of 1 File No. 41302.3 Chied Des

						~~~~							تسك	Cittu. By.	NID
Bori	ing Co	ა. <u>GZ</u>	A GeoE	invironmental	l, Inc.			Casing	Sampler		Grou	indwater		<del></del>	
For	eman	_	Ron Ho	olman		Турс	,ve	HSA	S.S	Date	e Time	Dept	eth	Casing	Stab. Time
GZ/						I.D.	./O.D.	4-1/4*	3" O.D.	12/6/94	4 1315	12.2	2'	13.0'	0 hours
Rep.	Enviro ).	onme:	ntai ClareA	nn Walsh		Har	mmer Wt.		140 LB.					· · · · · · · · · · · · · · · · · · ·	
Date	e Start	t 12/6	,/94	End 1	12/6/94	 Наг	mmer Fall	.i	30"				_		
Loc	ation	_				Othe	ier						_		
GS.	Elev.	_		Datum								_	_		
Ď	СB		Sŕ	ample Inform	nation			٤	Sample		Stratum	m '	R	Equipment	t Installed
D P T H	S L N W G S	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	a	Description	& Classification		Description	n j	RMKS		
											1		1.	1	!
'							1	O CAMPLES (	COLLECTED FROM	. ]	I	1		l .	ļ
'							]	0 TO 5 FC	OOT DEPTH	1	i	ĺ		NO EQUINST	UIPMENT TALLED
ľ					I		]			1	i			1	ALLED
5					<u> </u>		]			}	5.0'	$\Box$		1	-
,		Α	24/18	5-7	5-5	ND	Sample .	A:	ATT and CH T	1				(	!
<u>'</u>					5-6		trace m	brown, fine SAI nedium Gravel	ND and Sill,		SAND AND		. ]	i .	!
'		В	24/18	7-9	3-4	ND	Sample	B:	\т4 сп т		SILT		. ]	(	l
'					3-5	<u> </u>	trace m	brown, fine SAI nedium Gravel	ND and SILI,	1	9.0'		. ]	1	ļ
10		С	24/8	9-11	2-3	ND	Sample	; C:	· · · · · · · · · · · · · · · · · · ·	}				(	- -
10					2-2	<u> </u>	Sand, tr	grey-brown SIL	T, little tine ravel	Ì	SILT	.		(	!
'		D	24/8	11-13	3-3	1.4	- Sample .	e D: dark brown SIL race fine to med		Ì	3ILI	1		1	1
' !					3-6	,	Sanu, Sample	E:	ium Gravei	Ĭ	4 4 4 4 4			l .	
		Е	24/12	13-15	3-14	6.4 *	some fir	E:  Medium dense ine Gravel  Medium de	., brown Sill,	+	13.3'	-		l .	
15					11-11		brown,	n 9": Medium de fine to coarse S.	AND and fine	1		1		l .	_
15		F	16/12	15-16.3	14-40	8.3	Sample	ium Gravel F: Very dense on	Con CAND		SAND			1	
					100/4"	<u> </u>	Bottom	Very dense, ga	rey, fine SAND ie, grey, fine fine to coarse		AND GRAVE			i	
		G	24/12	17-19	52-49	5.9	GRAVE	'EL	ne to coarse	1		1	. }	į.	
, 1					41-5	<u></u>	Very der	G: ense, grey, fine	to coarse ed in tip of spoon)		19.0'			Ĺ	
					+	<u> </u>	SANU	(cobble jamme)	I in tip of spoon,	ſ	END OI	F		i .	_
20				ı	1		1				EXPLORA'	NOIT.	J	i.	_
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25					<del>  '</del>		1							ı	_
ſ				ı	1		1			1			J	ı	
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	$\Box$			<i>i</i> — —	<del>                                     </del>		1			]		1	J	ı	
R			<del></del>					400						·	
e m	i .	1. So	il sample Instrume	s field screen nts Model 58	ned for vola 30B photoir	itile organic onization de	compour etector (P	nds with a 10.0 (ID). PID value	eV portable Thermo es represent meter res ent to laboratory for a	Environre sponse ir	mental n parts				
a I	i	Г	ND indica	rates None De	retected.		""" indic	ates sample ser	it to laboratory for a	malysis.	•				
k		2. 3-i	inch sheer	en in middle s	section of se	ample.									

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

#### ENVIRITE THOMASTON, CONNECTICUT

Boring 1	No.	•	W-30
Page	1	of	1
File No.	41302	.3	

70-	ina C	. 67	'A G-aF		l Inc	· · · · · · · · · · · · · · · · · · ·		Cocinn	Complex		C	ndwater		endings	JIVID
	•	. <u>GZ</u>		nvironmental	i, inc.			Casing	<u>Sampler</u>	Data	<del></del>			<del></del>	Ctab Time
	eman	_	Ron Ho	oiman		— <sup>Тур</sup>	•	HSA	S.S.	Date	Time	Dep		Casing	Stab. Time
	Envir	onme	ntal	***			/O.D.	4-1/4"	3" O.D.	12/7/94	1200	14.1		15.0	0 hours
Rep				nn Walsh	- /= /c ·	_	nmer Wt.		140 LB.			<del> </del>			
	e Stan	t 1 <u>2/7</u>	/94	End 1	2/7/94	<del></del>	nmer Fall		30"					<b></b>	
	ation 					Oth	er					<u> </u>		1	
GS.	Elev.			Datum					<del></del>				_		
D P T H	CB SL NW	<u> </u>		ample Inform	<del></del>	1	1		ample		Stratur	n   ]	R M	Equipment	Installed
H	G S	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	İ	Description	& Classification	İ	Descriptio	n   ]	M K S		
													1.		-
						<u> </u>	1						1		
		$\vdash$			<u> </u>	· · · · · · · · · · · · · · · · · · ·	NO		OLLECTED FROM OOT DEPTH	f				NO EQ	UIPMENT ALLED
						i e	1							INST	ALLED
					1		1			ŀ	5.0'				
5		A	24/2	5-7	16-11	ND	Medium	dense, brown.	fine to medium						-
					10-10	<u> </u>	SAND	, .						] 	
		В	24/6	7-9	8-6	ND	Medium trace coa	dense, brown, arse Gravel	fine SAND,	ļ	SAND	,			
					5-6		Top 6":	Very loose, br	own, fine	ĺ			2.		
		С	24/22	9-11	2-1/12"	2 *	Bottom	Very loose, br some Silt 16": Very loos	e, grey, fine						
10	_		·		1	<u> </u>	SAND, s	some Silt							-
	_	D	24/24	11-13	8-6	438	I SAND a	Medium dense nd SILT		L	11.5'		3.		
			··· '		6-7		Bottom brown S	18": Medium of ILT and RUBI	lense, dark BER, some Wood		SILT	1	4.		
		E	24/12	13-15	3-17	1099 *	Dense, d	lark brown SIL	T, some fine to		AND RUBBE	R			
					14-12		medium	Sand, little Ru	bber (oily)	-	(WAST) 15.0'	E)	4.		
15		F	24/6	15-17	15-13	1449	Medium	dense, brown	SILT and fine		SILT AN				-
					15-19		SAND			1	SAND 17.0'	)			
		G	24/18	17-19	22-18	46 *	Dense, g	rey-brown, fin nd fine to coar	e to coarse		SAND A	ND			
					17-15	··· · · ·	SAND ā	nd fine to coar	se GRAVEL		GRAVI 19.0'	EL	5.		
				•							END O	F			
<b>2</b> 0										1	EXPLORA	TION	1		-
													ļ		
						-									
25					1										_
													ł		
				-											
													ļ		
R	1.	Soil s	amples fi	ield screened	for volatile	organic co	mpounds	with a 10.0 eV	portable Thermo Ei	nvironme	ntal		1		. <del></del>
e m		Inst per	truments million (	Model 580B ppm) above	photoioniz background	ation detect 1 values. "*	tor (PID). " indicates	. PID values re s sample sent t	portable Thermo Energesent meter responsible laboratory for analysis	onse in pa lysis.	rts				
a	,	ND	indicate	s None Dete	cted.	1-		•	•	-					

Organic odor/oil odor detected in dailip.
 Rubbery texture.
 Oily waste.
 Waste material from 11.5 to 15 feet below grade.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

#### ENVIRITE THOMASTON, CONNECTICUT

Page 1 of 1
File No. 41302.3

Ľ	Soring Co. GZA GeoEnvironmental, Inc.														$\perp$ c	Chkd. By:	JMB
<i>'</i>	orir	ng Co.	GZ	A GeoEr	ivironmental	, Inc.			Casing	<u>Sampler</u>			Grou	ndwate	er Re	adings	
F	ore	man		Ron Ho	lman		Тур	c	HSA	S.S.	Dat	e	Time	De	pth	Casing	Stab. Time
Ģ	ΖĄ	<u>.</u>		-4-1				/O.D.	4-1/4"	3* O.D.	12/7/	94	1500	12	5'	15.0'	0 hours
	ep.	Enviro	nme	ClareAr	nn Walsh		Han	nmer Wt.		140 LB.							
D	ate	Start	12/7	/94	End 1	2/7/94	Han	nmer Fall		30*							
և	ocaf	tion					Oth	ег									
G	S.E	ilev.			Datum												
B	<u> </u>	ÇВ		Sa	mple Inform	ation			8	Sample		1	Stratun	n	R	Equipment	Installed
D P T H		CB SL SS GS	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	1	Description	& Classification		De	escriptio	n.	R M K S		
Γ	ヿ				<del></del>	1	<del>                                     </del>					$\top$			1.		_
	Ţ					1		1						]			
	ı	一						NO	SAMPLES C 0 TO 5 F	OLLECTED FROM OOT DEPTH	А					NO EQ	UIPMENT
	ſ															1021	ALLED
	[							]				5.	.0'				_
	"[		Α	24/16	5-7	7-5	1.5	Medium	dense, fine SA	AND, little fine							_
	[					7-5		lo mediu	um Grável, trad	e siit							
			В	24/18	7-9	5-3	0.3	Loose, b	rown, fine SAI um Gravel, littl	ND, little fine							
l						5-3		to nicula	im Oravei, nee	e Siit							
١,	10		C	24/22	9-11	2-2	0.8	Very loo	se, brown-grey t, trace mediun	y, fine SAND,							_
•	"[					1-2			Loose, brown				SAND	,			
ĺ	L		D	24/18	11-13	12-4	3.6	coarse S	AND								
	L					3-3	<u> </u>	to coarse	6": Loose, dar e SAND	k grey, inic							
			E	24/12	13-15	3-4	4.1 *	Medium SAND, I	dense, brown,	, fine to coarse							
١,	15	$\perp$				8-16		] 3/11/2, .	ittie on.								_
-	1		F	24/10	15-17	13-26	0.5	Very der	nse, grey, fine t little fine Grav	to medium ∞I							
	L				<u></u>	23-16		],	ntio imo Cia								
l	Ļ		G	24/20	17-19	14-12	0.3	Top 8":	Medium dense	e, brown, fine medium Gravel							
	Ļ	_	_			7-7		Bottom :	12": Medium (	dense, grey,		19	9.0'				
2	20					ļ			1.0			EX	END O	F			_
	Ĺ		$\Box$			<u> </u>		[									
	ļ					]		]						İ			
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2	5-	$\dashv$						1						İ			_
	25					ļ		1						l			
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_	4					<u> </u>		L	<del></del>			L_					
R		1	i. So	il sample	s field screer	ned for vola	atile organic	: compoun	ds with a 10.0	eV portable Therme	o Enviro	nmer	ntal				
m			]	nstrumer	nts Model 58	0B photoic	nization de	tector (PI	D). PID value	eV portable Thermos represent meter re	esponse	in pa	rts				

per million (ppm) above background values. "" indicatés sample sent to laboratory for analysis.

ND indicates None Detected.

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. W-31

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

# ENVIRITE THOMASION, CONNECTICUT

Boring No. W-32 1

ile No.	41302.3
hkd. By	r: JMB

Groundwater Readings

3	оті	ng Co	. GZ	A GeoE	nvironmental	, Inc.			Casing	Sampler		G	roundv	vater	Re	eadings		
F	Foreman Ron Holman  GZA GeoEnvironmental Rep. ClareAnn Walsh						Турс	;	HSA	S.S.	Date	Ti	ne i	Dept	h	Casing	Stab. Time	e
ဋ	ZA	l Ensin	00me	ntal			1.D.,	O.D.	4-1/4"	3" O.D.	12/8/9	4 110	0	11.2	•	15.0'	0 hours	i
				ClareA	nn Walsh		Ham	mer Wt.		140 LB.								
D	ate	Start	12/8	/94	End 1	2/8/94	Ham	mer Fall		30"							<u> </u>	
L	oca	tion	_				Othe	r								<u> </u>		
G	S.E	ilev.			Datum													
P	2	C B S L		S	ample Inform	ation			Sa	mple		Str	tum	F	}	Equipment	Installed	
Î	.	NW	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data		Description &	Classification	1	Descri	tion	ji S	( )			
H	-	-	110.	100.	(1001)	<del>                                     </del>	1000 2000							┿	1.			-
	ı		$\vdash$			<del>                                     </del>												
	ł		_	<del> </del>		<del>                                     </del>		NO	SAMPLES CO	DILECTED FROM	.				ı	NO FO	UIPMENT	
	ı			<del></del>	<del></del>	<del> </del>		,	0 TO 5 FO	OLLECTED FROM OT DEPTH						INST	UIPMENT ALLED	
	Ì					†	-					5.0'						
i	5		Α	24/2	5-7	22-17	1.3	Dense, o	lark brown, fine	SAND, trace				7				-
	Ì					14-13		fine Gra	vel									
ŀ	İ		В	24/1	7-9	12-10	0.7	Medium	dense, brown, i	fine SAND,		SA	ND					
	Ì					9-7		Medium dense, brown, fine SAND, trace fine Gravel							1			
			С	24/18	9-11	1-1	105 *	Very loose, brown-grey, fine SAND and SILT				44.01						
	10					2-2						11.0'	4370	<b>—</b> i	2.			_
	1		D	24/24	11-13	2-3	839	Loose, b	rown-grey, fine me Rubber	SAND and		SANI SI SOME	AND LT					
	-					4-6		SIL1, SO	me Kudder			13.0'(W	ASTE	er .	۱,			
	ı		Е	24/18	13-15	2-5	565 *	Medium	dense, brown, f	fine to medium dium Gravel	Ī			٦.				
١,	15				•	6-13		SAIND,	some line to me	dium Gravei				'	2.			
,	]د		F	24/16	15-17	16-8	73	Medium	dense, grey, fin	e to coarse		SA	ND VD					_
						9-17		SAND,	ome line Grave	:1		GŔ	VEL	1	2.			
			G	24/10	17-19	24-37	196	Very der	nse, grey, fine to nd fine to medic	coarse				,				
						41-43		SANDA	na fine to mean	uiii GRAVEL		19.0'		_] :	2. 3. 4.			
١,	, ,					<u> </u>						ENI	OF	٧.	1			
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Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. Water level

Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values. "\*" indicates sample sent to laboratory for analysis. ND indicates None Detected.
 Strong odor observered in sample.
 PID readings collected inside building
 Waste material from 11 to 13 feet below grade.

27 Nack Road Vernon, Connecticut 06066 (203) 875-7655

#### ENVIRITE THOMASTON, CONNECTICUT

Boring N	lo.		W-33
Page	1	of	1
File No.	4130	2.3	
	_		

	3) 073-	,	-											Chkd. By:	<b>JMB</b>
Зог	ing Co.	GZ	A GeoE	nvironmental	, Inc.		Casing	Sampler			Grou	ndwate	r R	eadings	
For	eman		Ron Ho	olman		Тур	e HSA	S.S.	Dat	e	Time	Dej	pth	Casing	Stab. Time
GZ	A Enviro	nme	ntal			I.D.	/O.D. 4-1/4"	3" O.D.	12/8/	94	1000	14.	5'	15.0'	0 hours
Rep			ClareA	nn Walsh		Han	nmer Wt.	140 LB.							
Date	e Start	12/8	/94	End 1	2/8/94	Han	nmer Fall	30"							
Loca	ation					Oth	er				<u></u>			<u></u>	
GS.	Elev.			Datum											
D	CB SL		S	ample Inform	ation			Sample		į	Stratun	ո	R M	Equipment	Installed
D P T H	N W G S	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	Description	& Classification		De	escription	n	K		
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										l		Ì			
	H				<del>                                     </del>		NO SAMPLES C 0 TO 5 F	OLLECTED FROM	M	l				NO EQ	UIPMENT
							1			ļ				INST	ALLED
1	H						1			5.	.0'	1	2.		
5		Α	24/12	5-7	12-38	ND/1.2	Very dense, brown, fin Silt, trace fine Gravel	e SAND, little				$\neg$			_
1	$\vdash$				21-44	1	Silt, trace fine Gravel			1		- 1			
		В	24/12	7-9	5-5	ND/0.4	Loose, dark brown, fin Silt, trace fine Gravel	e SAND, some		}		1			
					5-5		Silt, trace fine Gravei			l					
10		С	15/4	9-10.2	8-28	0.1/2.3	Very dense, grey-brow coarse SAND, little fir	n, fine to		1					_
10					100/3"		coarse SAIND, little lir	ie Gravei			SAND	·			
		D	24/4	11-13	20-17	ND/3.4*	Dense, brown, fine to trace fine Gravel	coarse SAND,				- 1			
•					15-10		itace fine Graver								
		E	24/5	13-15	14-8	ND/0.4	Medium dense, brown SAND, trace fine Grav	fine to coarse							
15					7-14		Grave, trace fine Grav			i					
		F	24/4	15-17	11-12	-/4.7	Medium dense, brown SAND, trace fine Grav	fine to coarse	,	l					
					15-22			•						· I	
	$\vdash \rightarrow$	G	24/3	17-19	20-21	-/0.4	Medium dense, brown SAND, trace fine Grav	, fine to coarse				ļ			
	$\vdash$				19-33					┝	9.0'				
20	L				<u> </u>					EX	END O	F TION		,	-
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R	1		I		J					1					
e m	1	i. So I	il sample nstrume	s field screen nts Model 58	ed for vola OB photoic	tile organic nization de	compounds with a 10.0 tector (PID). PID value *** indicates sample se	eV portable Thermes represent meter re	o Enviror esponse i	nmer in par	ntal rts				
а Г		<b>.</b>	er millio ND indic	on (ppm) abo ates None De	ve backgro etected.	und values.	"" indicatés sample se	nt to laboratory for	analysis.						
k s	2	. PIT	st numb	er in Field Sc reading perfo	reen Data	column ina	icates PID reading perfo	ormed outdoors; sec	ond num	ber					

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

#### ENVIRITE THOMASTON, CONNECTICUT

Boring No. W-34 Page of 1 1 File No. 41302.3

W-34

(303) 0.15			- 1					hkd. By:	JMB		
loring Co. C	ZA GeoEnvironmental, Inc.	_	Casing	<u>Sampler</u>		Grour	ndwater Re	adings			
Foreman	Ron Holman	Туре	HSA	<b>S.</b> S.	Date	Time	Depth	Casing	Stab. Time		
GZA GeoEnvironn		I.D./O.D.	4-1/4"	3" O.D.	12/8/94	1330	14.5'	15.0'	0 hours		
Rep.	ClareAnn Walsh	Hammer Wt.		140 LB.							
Date Start 12,	/8/94 End 12/8/94	Hammer Fall		30"							
Location		Other									
GS.Elev.	Datum	_									
D CD	Comple Information	, ,		'amata		Stantum		Pavinmen	t Installed		

Γ	Ď	ÇВ	B Sample Information L Pen./ Depth Blows/ Fig. S No. Rec. (feet) 6" Test			Sample	Stratum	R	Equipment Installed		
	D P T H	N W G S	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	Description & Classification	Description	R M K S	
Γ	-									1.	<u>-</u>
								NO SAMPLES COLLECTED FROM			
ı			┝					0 TO 5 FOOT DEPTH			NO EQUIPMENT INSTALLED
									5.0'		
	5		Α	24/6	5-7	7-16	ND/5.1	Dense, brown, tree ROOT and coarse Gravel (Quartz)		2.	-
						33-35		Gravel (Quartz)			
			В	24/15	7-9	18-24	ND/2.9	Top 3": Very dense, grey, fine SAND Boltom 12": Very dense WOOD			
						48-19		Bottom 12 . Very dense wood			
	10		С	24/0	9-11	20-15	-/-	No recovery			
	•					10-7					
ł	-		D	24/1	11-13	12-12	ND/1.5	Medium dense, brown SILT and WOOD			
J	,					9-9			FILL		
			Е	24/0	13-15	18-18		No recovery			
	15			1	45.45	24-19	1.5/0.0	. Wood			_
	- 1	-	F	24/2	15-17	1-3	1.6/5.5	Loose WOOD and dark brown SILT			
	ŀ	-	G	24/2	17-19	2-9	ND/	Medium dense WOOD and dark brown			
	ł		U	24/2	17-19	11-12	ND/	SILT	19.0'		
	ŀ					11-12					
	20					1			END OF EXPLORATION		-
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stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. Boring No.

Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental
Instruments Model S80B photoionization detector (PID). PID values represent meter response in parts
per million (ppm) above background values. \*\*\* indicates sample sent to laboratory for analysis.
ND indicates None Detected.
 First number in Field Screen Data column indicates PID readings performed outdoors; second number
indicates PID reading performed indoors.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

#### ENVIRITE THOMASTON, CONNECTICUT

Boring No. W-35
Page 1 of 1
File No. 41302.3

							<del></del>					1	Jika. By:	JWB
' Вог	ing Co	o. <u>GZ</u>	A GeoEr	vironmenta	i, Inc.		Casing	Sampler		Grou	ndwate	r Re	adings	
d'on	man		Ron Ho	iman		Тур	e HSA	<u>S.S.</u>	Date	Time	Dep	oth	Casing	Stab. Time
GZ	4 Fovir	onme	ntal			I.D.	/O.D. 4-1/4"	3" O.D.	12/12/94	1000	14.	1'	15.0'	0 hours
Rep			ClareAr	nn Walsh		Han	nmer Wt.	140 LB.						
Date	Star	1 12/1	2/94	End 1	2/12/94	Han	nmer Fall	30"			1			
Loc	ation					Oth	er							
GS.	Elev.			Datum										
D P	C B S L		Sa	mple Inform	natio <b>n</b>			Sample		Stratur	n	R M	Equipment	t Installed
Ť	NW	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	Description	& Classification	ם	escriptio	n	KS		
п	03	No.	Rec.	(leet)	- °	1 est Data			<del></del>			1.		
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l	<b> </b> -	-			<del> </del>	<del>                                     </del>	NO SAMPLES O	COLLECTED FROM	١		-	- {	NO EO	INDMENT
	<del> </del>				<del> </del>	<del>                                     </del>	01035	OOI DEFIH			ĺ	- 1	INST	UIPMENT FALLED
		-			<del>- </del>	<del> </del> -	1		1.	5.0'		- [		
5		A	24/16	5-7	5-6	ND	Medium dense, brown	Goe SAND	<u> </u>	-		1		
			24/10	3-1	6-5	I ND	little Silt	i, thie salve,	1		l	ŀ		
	<del> </del>	В	24/14	7-9	6-6	ND	Medium dense, brown	Gne SANID		FILL		- 1		
	<b> </b> -	<u> </u>	24/14	1-9	+	ND -	little Silt	i, fille SAIND,		IILL		- 1		
	┢	<u></u>	24/9	9-11	8-14	ND -		- EILL /ACIL						
10		С	24/8	3-11	3-2	ND	Loose, black and white WOOD, COAL)	e fill (ASH,		11.0'				•
		D	24/6	11 12	<del></del>	ND •		See SAND	<u> </u>	11.0				
		۳	24/6	11-13	5-8 10-22	IND -	Medium dense, dark t little Silt, trace fine G	ravel				- 1		
_		E	24/12	13-15	4-4	ND	Madium danca dark b	and SAND						
		-	24/12	13-13	7-11	IND .	Medium dense, dark b little Silt, trace fine G	ravel		SAND				
15		F	24/20	15-17	5-6	ND	Medium dense, brown	fine to coarse		SALID				
			24/20	13-17	17-18	I ND	SAND, some fine Gra	vel				- 1		
		G	24/20	17-19	22-19	ND	Dense, brown, fine to	COSTC	Į.		ı			
		-	24/20	17-17	25-21	I ND	SAND, some fine Gra	vel		19.0'				
					25-21	_			<u></u>	END O	E			
<b>2</b> 0		<u> </u>			+	-			E	KPLORA	NOIT			•
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R		1. Sc	il sample	s field screen	ed for vola	atile organic	compounds with a 10.0	eV portable Thermo	Environme	ntal				
m a		ļ	er millio	n (ppm) abo	ve backgro	und values.	tector (PID). PID value  "*" indicates sample se	ent to laboratory for a	sponse in pa inalysis.	1119				
I k			אטונסונג	ites inone De	ciccica.									

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

### ENVIRITE THOMASTON, CONNECTICUT

 Boring No.
 W-36

 Page
 1
 of
 1

 File No. 41302.3
 JMB

301	ring Cr	o. G7	ZA GeoE	nvironmental,	, Inc.		Casing	Sampler		Grou	ndwat	er R	leadings	
OI Page	reman		Ron Ho	olman		— тур	e HSA	S.S.	Date	Time	De	pth	Casing	Stab. Time
GΖ	<u>A</u> .						/O.D. 4-1/4"	3" O.D.	12/12/94	1345	13	3.9'	15.0'	0 hours
Rep	o <b>Envin</b> p.	onme	ClareA	nn Walsh		Han	nmer Wt.	140 LB.						
Dat	te Start	t 12/1	12/94	End 12	2/12/94	Han	nmer Fall	30"				_		
Loc	cation	_				Oth	er							
GS.	.Elev.			Datum										
D	CB		S	ample Informa	ation		s	Sample		Stratur	n	R M	Equipmen	nt Installed
D P T H	NW GS	No.	Pen./ Rec.	Depth (feet)	Blows/	Field Test Data	Description	& Classification	D	escriptio	n	M K S	1	
<u> </u>	+	-		()	+		1					1.		
		<del>                                     </del>			†	<del> </del>	1						1	
							NO SAMPLES C 0 TO 5 F	OLLECTED FROM OOT DEPTH	<sup>(</sup>				NO EQ	UIPMENT TALLED
					<del> </del>	1	1						INSI	MALLED
Ι,	.   _					1	1							
5		Α	24/0	5-7	27-24		No recovery						l	•
1					24-19		1		Ŀ	7.0'		2.	1	
		В	24/4	7-9	11-6	3.4/	Medium dense, black, i SAND, trace Silt, trace	fine to medium					1	
					6-6	12.7	SAND, trace Siit, trace	: line Gravei					1	
10		С	24/8	9-11	3-5	ND/10	Medium dense, black, t SAND, trace Silt, trace	fine to medium		SAND	)		1	
1					9-18		SAMD, Hate Sin, Hate	; line Glavei	-			1 1	1	
		D	14/10	11-12.2	19-34	ND/9.9*	Very dense, dark grey, coarse SAND and fine GRAVEL	fine to						
١					100/2"		GRAVEL	to tourse	<u></u> ;	13.0'			1	
<b>*</b>		E	<u> </u>	13-15	<del></del>	<u> </u>	No sample, augered the	rough cobbles		COBBLI	ES		1	
15	, <b> </b>	<u> </u>	<u> </u>	<del></del>	<del> </del>	ļ			<u> </u>	15.0'			1	
	<u> </u> '	F	24/8	15-17	95-53	ND/2	Very dense, white, fine SAND and fine to med	to coarse					İ	
	$\bigsqcup$	<u> </u>	<del>                                     </del>		31-26	<u> </u>	(cobbles)		]	SAND AI GRAVE				
	<u> </u>	G	24/16	17-19	27-21	ND/1.0	Dense, brown, fine to a some fine to medium C	coarse SAND, Gravel					1	
		<b> </b> -	<del> </del> -	<del></del>	18-28	<del> </del>			<sup>1</sup>	19.0'			1	
20	+	$\vdash$	<del></del>		┼				E	END O XPLORA	TION		1	
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R	<b>—</b>								<del></del>	<del></del>				
e m		1. Sc	oil sample Instrume	s field screen nts Model 580	ed for voia JB photoic	itile organic onization de	compounds with a 10.0 tector (PID). PID value	eV portable Thermo is represent meter re-	Environme sponse in p	ntal arts				
ı	]	] 4 E/2	ND indic	n (ppm) abov ates None De	tected.	und values.	compounds with a 10.0 tector (PID). PID value "" indicates sample ser	at to laboratory for a	nalysis.					
k S	1	2. F1	ırsı numbe	er in Field Sci PID reading p	reen Data	column indi	icates PID reading perfo	rmed outdoors; seco	na number					

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

#### ENVIRITE THOMASTON, CONNECTICUT

Boring N	о.		W-37
Page	_ 1	of	1
File No.	41302	.3	
Chkd. By	: -	JM	В

•	Зог	ing Co	o. G2	'A GeoEr	nvironmental	i, Inc.	_		Casing	Sampler		Grou	ndwate	er R	cadings	- <u></u> -
Foreman Ron Holman GZA GeoEnvironmental Rep. ClareAnn Walsh					olman		Турс	e .	HSA	S.S.	Date	Time	De	pth	Casing	Stab. Time
1	ĞΖ	<u>A</u> .			· · · · ·		I.D.	/O.D.	4-1/4"	3" O.D.	12/13/9	4 1015	21	.1'	20.0'	0 hours
			onme	ntai ClareAr	nn Walsh		Han	nmer Wt.		140 LB.						
ļ,	Date	e Star	t 12/1	3/94	End 1	12/13/94	— Нап	nmer Fall		30"						
IJ	Loca	ation					Othe	er								
1	GS.I	Elev.			Datum					-						
r	Ď	ÇВ		Sa	ample Inform	nation			Sa	ımple		Stratum	n	R	Equipment	t Installed
	D P T H	CB SL NW	No.	Pen./	Depth	Blows/	Field Test Data		Description &	Classification	1	Description	n	R M K S		
H	<u>H</u>	03	10.	Reć.	(feet)	+	1 CSI Data	<del> </del>					$\dashv$	1.		-
	I	$\vdash\vdash$	├─	<del>├──</del> ┤		+	<del> </del>	1			1			*		
	!	├	-	<del>                                     </del>		+	<del>                                     </del>	1							NO FO	UIPMENT
		<b> </b> -	<del> </del>	<del>  </del>	<del></del>	+	-	NO.	CAMPIES CC	DLLECTED FROM	. 1				INST	TALLED
	ļ	igwdapprox	├─	├	<del></del>	+	<del></del>		0 TO 10 FO	OCT DEPTH	,		1		İ	
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		<b> </b>	В	24/22	12-14	12-13	ND/1.6		dense, brown, f	Can to ongera					i	
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۱ د	c ]	i	1. Sc	il sample	s field screer	ned for vola	itile organic	compoun	ds with a 10.0 c	V portable Thermo	Environn	iental				
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Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

per million (ppm) above background values. """ indicates sample sent to laboratory for analysis.

ND indicates None Detected.

2. First number in Field Screen Data column indicates PID reading performed outdoors; second number indicates PID reading performed indoors.

3. Oily odor.

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

#### ENVIRITE THOMASTON, CONNECTICUT

Boring N	lo.		W-38
Page	1	of	1
File No.	41302	3	
Chkd. By	<i>r</i> : —	JМ	В

ı	Bor	ing Co	. GZ	A GeoEr	vironmental	Inc.			Casing	Sampler			Groun	dwat	er Re	adings	
٧	,iore	man		Ron Ho	lman		— Тур	<b>e</b>	HSA	<b>S.S.</b>	Date	: ]	Time	De	pth	Casing	Stab. Time
	GZ	<u> </u>					I.D.,	/O.D.	4-1/4*	3" O.D.	12/13/	/94	1330	21	.0'	out	0 hours
	Rep	Ênvir	onme	ntai ClareAr	nn Walsh		Han	nmer Wt.		140 LB.							
	Date	Start	12/1	3/94	End 12	2/13/94	Han	ımer Fall		30"							
	Loca	ation					Oth	er									
	GS.	Elev.			Datum												
	D P	C B S L		Sa	mple Inform	ation			Sa	ample			Stratum	1	R M	Equipment	Installed
l	T	NW		Pen./	Depth (feet)	Blows/	Field	]	Description &	& Classification		De	scription	ı	K S		
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ł				<del></del>			1410/2.0	SAND,	trace fine Grave	el							
-			B 24/24 12-14 25-17				ND/0.5	Dense h	rown fine to o	narse SAND							
	_			24/21	12 11	20-27	110/00	trace fin	prown, fine to o e Gravel	ouiso or ii 12,	1						
~			С	24/14	14-16	17-25	ND/0.9	Very der	nse, grev-brown	. fine to	l						
ŀ	15			2.,		35-44	/ 5.12	coarse S.	nse, grey-brown AND, trace fine	Gravel	1		SAND		1		
ĺ			D	24/20	16-18	26-24	ND/1.0*	Verv der	nse, brown, fine	to coarse	}						
Ì				,		26-26	, , , , , ,	SAND, t	nse, brown, fine trace fine Grave	:1							
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- 1				,==		21-18	_ ,	SAND, t	nse, brown, fine trace fine Grave	el .		20	.0'				:
	20		F	24/16	20-22	40-50	ND/1.6	Very der	nse, brown, fine	to coarse	ŀ	S/	AND AN	D			-
						49-24	<u> </u>	SAND a	nd GRAVEL			(	GRAVE! !.0'	L			
		$\neg$	G	24/20	22-24	12-12	ND/0.1*	Medium	dense, brown,	fine to coarse	ľ		SAND				
- 1	ı				· ·· = ·····	16-21		SAND, t	race fine Grave	el .	- 1	24	.0'				
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ſ	R 1. Soil complet field compand for unletile comp				tile occurie		de mith = 100 =	V sostable Theres	· Envi-		<b>tol</b>						
-	R e 1. Soil samples field screened for volatile or m					nization del	tector (PI)	D). PID values	represent meter re	sponse in	n par	ts					
	a per million (ppm) above background ND indicates None Detected. k 2. First number in Field Screen Data colo						unu values.	CIE setes	nes sampic sen	med outdooms seed	inalysis.						
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ratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level eadings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

#### GZA GEOENVIRONMENTAL, INC. Boring No. D-1 Consulting Engineers/Geologists/Environmental Scientists Page 1 1 ENVIRITE THOMASTON, CONNECTICUT 27 Nack Road Vernon, Connecticut 06066 (203) 875-7655 File No. 41302.3 Chkd. By: **JMB** Soring Co. GZA GeoEnvironmental, Inc. Casing Groundwater Readings Sampler **Foreman** Al Augustine Туре HSA S.S. Date Time Depth Casing Stab. Time I.D./O.D. 4-1/4" 3" O.D. GZA GeoEnvironmental Pen Helena Hollauer Hammer Wt. 140 LB. Rep. 30" Date Start 11/16/94 End 11/16/94 Hammer Fall Other Location GS.Elev. Datum CB SL NW GS R M K S **Equipment Installed** Sample Information Sample Stratum Ť H Field Test Data Depth (inches) 6 Pen./ Rec. Description & Classification Description Blows/ No. 1. No samples collected from 0 to 5 foot depth NO EQUIPMENT INSTALLED 5.0' 5-7 0.4 \* Very dense, brown-grey, fine to coarse SAND and fine to coarse GRAVEL (cobbles) FILL Α 24/24 15-80 57-70 7.0' END OF EXPLORATION 10 20 25 Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values. \*\*\* indicates sample sent to laboratory for analysis. ND indicates None Detected. e m

ratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. D-1

#### GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists D-2 Boring No. Page 1 of 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 ENVIRITE THOMASTON, CONNECTICUT File No. 41302.3 Chkd. By: JMB Boring Co. GZA GeoEnvironmental, Inc. Groundwater Readings Casing Sampler Al Augustine Туре **HSA** S.S. Date Time Depth Casing Stab. Time ∂oreman. 3" O.D. I.D./O.D. 4-1/4" GeoEnvironmental Rep. Helena Hollauer Hammer Wt. 140 LB. 30" Date Start 11/16/94 End 11/16/94 Hammer Fall Location Other GS.Elev. Datum Stratum Sample Information Sample R M K S Equipment Installed Depth (inches) 6 Ť H N W G S Pen./ Rec. Field Description & Classification Description Test Data No. 1. NO EQUIPMENT INSTALLED No samples collected from 0 to 5 foot depth 5.0' Α 24/16 5-7 12-19 0.2 \* Medium dense, brown, fine to medium FILL SAND, little fine to coarse Gravel 11-12 7.0' END OF EXPLORATION 10 15 20

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

 Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values. \*\*\* indicates sample sent to laboratory for analysis. ND indicates None Detected.

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Boring No.

D-2

### GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists T-1 Boring No. Page 1 ENVIRITE THOMASTON, CONNECTICUT 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 File No. 41302.3 **ЈМВ** Chkd. By: Boring Co. GZA GeoEnvironmental, Inc. Casing Sampler Groundwater Readings H.S.A. S.S. Date Time Casing Stab. Time Ron Holman Depth **∉**foreman Туре 4-1/4" I.D./O.D. 3" O.D. GeoEnvironmental Rep. Al Augustine Rep. 140 LB. Hammer Wt. 30" Date Start 2/8/95 End 2/8/95 Hammer Fall Other Location GS.Elev. Datum R M K S Equipment Installed CB Sample Information Sample Stratum Blows/ Depth (inches) Field Test Data Ť H Pen./ Rec. Description & Classification Description GS No. 1 NO EQUIPMENT INSTALLED FILL 24/18 10-17 ND \* Medium dense, brown, fine to medium SAND, some coarse Gravel, trace Silt 9-11 Α 10 8-18 12.0' 2. END OF EXPLORATION 20 25

m

2. Auger refusal at 12 feet below grade.

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

T-1

Soil samples field screened for volatile organic compounds with a 10.6 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values. "" indicates sample sent to laboratory for analysis. ND indicates None Detected.

# GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

# ENVIRITE THOMASTON, CONNECTICUT

Boring N	io.	Т	-2
Page	1	of	1
File No.	41302	.3	
~ n		77.4	

<u> </u>														aiku. Dy.	JMD
Bot	ing Co	o. <u>GZ</u> /	A GeoEn	vironmenta	il, Inc.			Casing	Sampler		Grou	ndwater	Re	adings	
w'or	eman		Ron Ho	lman		Тур	c .	H.S.A.	S.S.	Date	Time	Depti	h	Casing	Stab. Time
GZ	<b>A</b>		1			I.D.	/O.D.	4-1/4"	3" O.D.		<u> </u>				
Rep	Envir	onmen	iai Al Augu	stine		Han	nmer Wt.		140 LB.						
Dat	e Star	t 2/8/9	5	End 2	2/8/95	Han	nmer Fall		30"						
Loc	ation					Oth	er -								
GS.	Elev.	_	·	Datum	1	<del></del>									
D	СВ	Π	Sa	mple Inform	mation		1	S	ample	T	Stratun	n R	Ī	Equipment	Installed
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a r		N	D indica	tes None D	retected.		"" indica	ites sample sen	t to laboratory for a	anaiysis.					
k s		Z. Aug	er refus	al at 12.5 fe	et below g	rade.									
ــــ traو	țific	ation	lines	represent	t арргох	imate boun	daries b	etween soil	types, transiti	ons may b	be gradua	l. Wat	tei	level	
read fact	ings ors t	have han t	been ma hose pr	ide at tir resent at	mes and ເ the time	under cond measurem	itions si ents were	tated. Fluc e made.	types, transiti tuations of gro	undwater	may occu	r due 1	to 	other	
	•	•		_									1	Boring No.	T-2

# GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists 27 Naek Road Vernon, Connecticut 06066

# ENVIRITE THOMASTON, CONNECTICUT

T-3 Boring No. Page File No. 41302.3

Boring No.

(20.	3) 875-	-7655										1	Chkd. By:	JMB
or	ing Co	. GZA	\ GeoEn	vironmenta	al, Inc.		Casing	Sampler		Grou	ndwate	r R	eadings	
For	eman		Al Augu	stine		Тур	e	S.S.	Date	Time	Dej	pth	Casing	Stab. Time
GZ	A	onmen	+21			I.D.	./O.D.	3" O.D.	11/16/9	1333	5.8	8'	out	0 hours
Rep				Hollauer		Har	mmer Wt.	140 LB.	11/16/9	1700	8.5	5'	out	3.5 hours
Date	e Start	11/16	/94	End ?	11/16/94	Har	nmer Fall	30*	L	$\bot$	<u> </u>		<u> </u>	
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P	C B S L		T	mple Inform	nation	T	╡	Sample		Stratur	1	R M K S	Equipment	Installed
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	$\vdash$	Α	24/20	6-8	2-1/12*	127	Very loose, brown-blace coarse SAND, some fi	ck, fine to ne to coarse						
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	$\vdash$		24/20	10-12	14-18	170	coarse SAND, some fin	ne to coarse				4.		
İ	$\vdash \dashv$		<del> </del>		<del> </del>	-	Bottom 7": Medium d fine to coarse SAND, s	ense, black, some fine						
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R	1.	Soil sa	mnles fic	eld screener	d for volati	le organic co	mpounds with a 10.0 eV	nortable Thermo	Environmen	tal	<u></u>			
c m		Instr per r	uments I	Model 580B	3 photoioni backgrou	ization detected	ompounds with a 10.0 eV ttor (PID). PID values r indicates sample sent t	epresent meter responsible laboratory for an	ponse in par ialysis.	ts				
a ſ	. Z. :	SDIII SI	boon san	ndie nas ode	ior.									
k	3. 1	Fibergi drv.	lass foun	nd 1/2" from	n tip of spc	on, soils abo	ove fiberglass were wet a	nd soils below fiber	rglass were					
		Rods c	oily at 10						<del> </del>					<del></del>
Stra	tific ings	ation have	lines been ma	represent	t approxi	mate bound	daries between soil itions stated. Flu	types, transit ctuations of gr	ions may b oundwater	e gradua may occu	il. W	to	r level other	
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### GZA GEOENVIRONMENTAL, INC. T-4 Boring No. Consulting Engineers/Geologists/Environmental Scientists 1 Page 1 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 ENVIRITE THOMASTON, CONNECTICUT File No. 41302.3 Chkd. By: **ЈМВ** 'oring Co. GZA GeoEnvironmental, Inc. Groundwater Readings Casing <u>Sampler</u> Foreman S.S. Date Time Casing Stab. Time Al Augustine Туре Depth GZA I.D./O.D. 3" O.D. GeoEnvironmental Řер. 140 LB. Helena Hollauer Hammer Wt. Date Start 11/16/94 End 11/16/94 Hammer Fall 30" Other Location GS.Elev. Datum CB SL NW GS Sample Information Equipment Installed Sample Stratum Biows/ Ť Description & Classification Pen./ Rec. Depth (inches) Field Description Test Data No. 1. No samples collected from NO EQUIPMENT INSTALLED 0 to 6 foot depth 6.0' Α 24/20 2-3 ND \* Loose, brown, fine to medium SAND, trace fine Gravel 2-10 FILL 9.5' END OF EXPLORATION 2. 10 20 25

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tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. Boring No.

T-4

Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values. \*\*\* indicates sample sent to laboratory for analysis. ND indicates None Detected.
 Auger refusal at 9.5' depth.

27	Nack :	Road			TAL, IN	C. ntal Scientists	3	THOMASTO	ENVIRITE	CTICUT			Boring No. Page 1 File No. 413	
(20	3) 875	-7655	ticut 060						514, CO1414 <u>2</u>			ł	Chkd. By:	JMB
Por	ing Co	o. GZ/	. GeoEn	vironmenta	ıl, Inc.	<del></del> -	Casing	Sampler	<del></del>	Grou	ndwate		eadings	
For	eman		Ron Ho	lman		— Тур	e H.S.A.	S.S.	Date	Time	De	pth	Casing	Stab. Time
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Boring No.

# GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 Renvirite THOMASTON, CONNECTICUT File No. 41302.3 Chkd. By: Ji loring Co. GZA GeoEnvironmental, Inc. Casing Sampler Groundwater Readings

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Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

# GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

# ENVIRITE THOMASTON, CONNECTICUT

F-1 Boring No. 1 Page 1 of File No. 41302.3 Chkd. By:

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stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

### GZA GEOENVIRONMENTAL, INC Boring No. F-3 Consulting Engineers/Geologists/Environmental Scientists Page 1 of 1 ENVIRITE THOMASTON, CONNECTICUT 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 File No. 41302.3 Chkd. By: Groundwater Readings Boring Co. GZA GeoEnvironmental, Inc. Casing <u>Sampler</u> ClareAnn Walsh Туре Hand Date Depth Stab. Time **f**oreman **GZA** I.D./O.D. GeoEnvironmental Rep. ClareAnn Walsh Hammer Wt. Date Start 6/27/94 End 6/27/94 Hammer Fall Location Inside Facility Building Other Concrete Corer GS.Elev. Datum Sample Information Sample Equipment Installed Stratum Ť H N W G S Pen./ Rec. Depth (inches) 6 Field Test Data Description & Classification Description No. 0-0.5 1. Cored through Concrete floor CONCRETE 0.5' NO EQUIPMENT INSTALLED 0.5-1.0 . Α Brown, fine to medium SAND FILL 1.0-1.5 В Brown, fine to medium SAND 1.5' END OF EXPLORATION

 Samples collected by hand after coring through concrete floor. Upper surface of concrete core sent to laboratory for analysis. "\*" samples sent to laboratory for analysis.

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Boring No.

# GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

# ENVIRITE THOMASTON, CONNECTICUT

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Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

### GZA GEOENVIRONMENTAL, INC. Boring No. F-5 Consulting Engineers/Geologists/Environmental Scientists Page 1 1 ENVIRITE THOMASTON, CONNECTICUT 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 File No. 41302.3 Chkd. By: Joring Co. GZA GeoEnvironmental, Inc. Groundwater Readings Casing Sampler Foreman ClareAnn Walsh Hand Date Time Depth Casing Stab. Time Туре I.D./O.D. GeoEnvironmental Rep. Cla ClareAnn Walsh Hammer Wt. Date Start 6/27/94 End 6/27/94 Hammer Fall Inside Facility Building Concrete Corer Location Other GS.Elev. Datum CB SL NW GS R M K S Sample Information Sample Stratum Equipment Installed Depth Blows/ Field Description & Classification Description Ĥ Test Data No. (inches) 6 0-0.5 Cored through Concrete floor 1. CONCRETE 0.5' NO EQUIPMENT INSTALLED 0.5-1.0 Α Brown, fine to medium SAND **FILL** В 1.0-1.5 Brown, fine to medium SAND 1.5' END OF EXPLORATION

1. Samples collected by hand after coring through concrete floor. Upper surface of concrete core sent to laboratory for analysis. """ samples sent to laboratory for analysis.

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ratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level teadings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

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No.   Rec.   (inches)   6   Test Data	Ď	ÇВ		Sar	mple Inforr	nation			Sample		Stratun	n	R	Equipment	t Installed
SAND and fine GRAVEL (processed stone)  SAND and fine GRAVEL (processed stone)  SAND and fine GRAVEL (processed stone)  Dense, brown, fine to medium SAND, little fine Gravel  Dense, brown, fine to medium SAND, little fine Gravel  Very dense, brown-grey, fine to coarse SAND and GRAVEL (cobbles)  42'  END OF EXPLORATION  SAND and fine GRAVEL (processed stone)  Very dense, brown-grey, fine to coarse SAND and GRAVEL (cobbles)  42'  END OF EXPLORATION  SAND and fine GRAVEL (processed stone)  SAND and fine GRAVEL (processed stone)  SAND and fine GRAVEL (processed stone)  SAND and fine GRAVEL (processed stone)  FILL  NO EQUIPMENT INSTALLED  NO EQUIPMENT INSTALLED  1. Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model SSBB photoionization detector (FID). FID values represent meter response in parts proposed to a support of the parts of the parts of the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed stone and the processed ston	T H	N W G S	No.	Pen./ Rec.	Depth (inches)	Blows/		Description	1 & Classification	1	Description	n	K S		
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SAND, little fine Gravel  SAND, little fine Gravel  Very dense, brown-grey, fine to coarse SAND and GRAVEL (cobbles)  Very dense, brown-grey, fine to coarse SAND and GRAVEL (cobbles)  END OF EXPLORATION  R  1. Soil samples field screened for volatile organic compounds with a 10.0 eV portable. Thermo Environmental per million (ppm) above background. *** indicates sample sent to laboratory for analysis.	18	$\vdash \vdash$		├	10.24		<del> </del>		<b>4.</b>			ł			
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Coarse SAND and GRAVEL (cobbles)  42° END OF EXPLORATION  66 67 77 78 84 84 84 85 1. Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background. *** indicates sample sent to laboratory for analysis.  ND indicates None Detected.	<b>3</b> 6		$\overline{c}$	18/18	36-42	83-70	0.2	Very dense, brown-gr	rev fine to			ļ			
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EXPLORATION  EXPLORATION  EXPLORATION  EXPLORATION  EXPLORATION  EXPLORATION  EXPLORATION  EXPLORATION  EXPLORATION  Solid Samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background. "" indicates sample sent to laboratory for analysis.  ND indicates None Detected.	42					<del> </del>	<del> </del>	1			END O	F	1		
54  60  72  78  84  1. Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background. "" indicates sample sent to laboratory for analysis.  ND indicates None Detected.						<u> </u>	<u> </u>	Í		E	EXPLORA	TION	1		•
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	#ra	tifica	ation	lines	represent	approx	imate bourk	daries between soil	l types, transiti	ons may b	e gradua	l. 1	Wate	er level	<u> </u>

Boring No.

### GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists F-9 Boring No. Page 1 ENVIRITE THOMASTON, CONNECTICUT 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 41302.3 File No. Chkd. By: **JMB** oring Co. GZA GeoEnvironmental, Inc. Casing Sampler Groundwater Readings S.S. Time Date Depth Casing Stab. Time Ron Holman Foreman Туре I.D./O.D. 3" O.D. GeoEnvironmental Rep. ClareAnn Walsh Hammer Wt. 140 LB. 30" Date Start 11/30/94 End 11/30/94 Hammer Fall Other Location GS.Elev. Datum Sample Information Sample Stratum Equipment Installed Blows/ N W G S Depth (inches) Pen. Field Description & Classification Description Test Data Dense, red-brown, fine SAND, little fine Gravel 1. Α 24/24 0-6 6-13 ND \* 22-90 NO EQUIPMENT INSTALLED **FILL** 18 Dense, red-brown, fine to medium SAND, some fine to medium Gravel В 18-24 ND \* 24 30 36 Very dense, red-brown, fine to coarse GRAVEL (cobbles) and fine to coarse SAND C 18/18 36-42 52-36 ND 57 42" END OF EXPLORATION 48 60

R e m a r

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tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. F-9

Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background. "" indicates sample sent to laboratory for analysis. ND indicates None Detected.

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(20		-7005					- <del></del>						Chkd. By:	ЈМВ
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	eman	_	Ron Hol	man		Тур	e	S.S.	Date	Time	De	pth	Casing	Stab. Time
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ra	tific	ation	lines	represent	t approxi	mate bound	daries between soil tions stated. Flu	types, transiti	ons may b	e gradua	l. 1	at	er level	
ract	ors t	nave han t	been ma hose pr	esent at	the time	measureme	ents were made.	ictuations of gro	u ruwa lei'	тау ОССИ	, que	י ר	Desire III	F.10

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Boring No.

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3ori	ng Co	. GZ	GeoEn	vironmenta	ıl, Inc.		Casing	Sampler		Grou	ndwate	r R	eadings	
Fore	man		Ron Hol	lman	<del></del>	— тур	e	S.S.	Date	Time	De	pth	Casing	Stab. Time
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r		Ñ	D indicat	teš None D	etected.		•	<u>.</u>						

ratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

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D P T H	N W G S	No.	Pen./ Rec.	Depth (inches)	Blows/	Field Test Data	Description	& Classification		Description	1	K S		
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 Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background. "" indicates sample sent to laboratory for analysis. ND indicates None Detected.

rtratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level feadings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. G-1

### GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists Boring No. G-3 Page ENVIRITE THOMASTON, CONNECTICUT 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 41302.3 File No. Chkd. By: **JMB** Boring Co. GZA GeoEnvironmental, Inc. Casing Groundwater Readings Sampler Casing S.S. Date Time Depth Stab. Time **Foreman** Al Augustine Type GZA GeoEnvironmental Helena Hollauer 3" O.D. I.D./O.D. Hammer Wt. 140 LB. 30" Date Start 11/18/94 End 11/18/94 Hammer Fall Location Other GS.Elev. Datum Equipment Installed Sample Information Sample Stratum P T H N W G S Biows/ Depth (inches) Field Description & Classification Description Pen. Test Data No. ND \* 1. Α 24/24 0-6 5-8 Medium dense, brown, fine to coarse SAND, trace fine to coarse Gravel 12-19 NO EQUIPMENT INSTALLED 12 FILL. 18 В ND Medium dense, brown, fine to coarse 18-24 SAND, trace fine to coarse Gravel 24 C Very dense, brown-grey, fine to coarse SAND, little fine to coarse Gravel (cobbles) 18/18 36-42 ND 36-40 55 42 END OF EXPLORATION 60 78

 Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background. """ indicates sample sent to laboratory for analysis. ND indicates None Detected.

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Itratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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es Sart 11/18/94 End 11/18/94 End 11/18/94 Other  CEP. Datum  CEP. Sample Information CS No. Ren. (Inches) Blowe/ Test Data  A 12/12 0-6 15-100 ND SAMPLE Inches, brown, fine to coarse SAND, little fine to coarse Gravel  NO EQUIPMENT INSTALLED  FILL  NO EQUIPMENT INSTALLED  PRIL OF 24/24 36-42 18-22 ND Description SAND, some fine to coarse Gravel  1. Soil samples field screened for valuable organic compounds with a 10.0 eV portable. Thermo Environmental Instruments Model Soils photosomeration detector (PTD), PTD values represent meter response in parts per million (ppm) above background. "* indicates hample sent to laboration; for the part of the per million (ppm) above background. "* indicates hample sent to laboration; for the present meter response in parts per million (ppm) above background. "* indicates hample sent to laboration; for the parts and under coorditions stated." Fluctuations of groundwater may occur due to other	icol lep.	Enviro	nment	ai Helena I	lollauer							_		1	
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PILL  No EQUIPMENT INSTALLED  No EQUIPMENT INSTALLED  No EQUIPMENT INSTALLED  No EQUIPMENT INSTALLED  No EQUIPMENT INSTALLED  No EQUIPMENT INSTALLED  No EQUIPMENT INSTALLED  PILL  No EQUIPMENT INSTALLED  No EQUIPMENT INSTALLED  No EQUIPMENT INSTALLED  No EQUIPMENT INSTALLED  No EQUIPMENT INSTALLED  No EQUIPMENT INSTALLED  1. Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model S806 photoconization detector (PID). PID values represent meter response in parts per million (upon) above background. Indicates sample sent to laboratory for analysis.  1. Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model S806 photoconization detector (PID). PID values represent meter response in parts per million (upon) above background. Indicates the sample sent to laboratory for analysis.  1. Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model S806 photoconization detector (PID). PID values represent meter response in parts per million (upon) above background.  1. Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model S806 photoconization detector (PID). PID values represent meter response in parts per million (upon) above background.								SAND, little fine to con	arse Gravel						
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G-4

Boring No.

### GZA GEOENVIRONMENTAL, INC. Boring No. G-5 Consulting Engineers/Geologists/Environmental Scientists 1 Page ENVIRITE THOMASTON, CONNECTICUT 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 41302.3 File No. JMB Chkd. By: Groundwater Readings Joring Co. GZA GeoEnvironmental, Inc. Casing Sampler Foreman. Al Augustine Туре S.S. Time Depth Casing Stab. Time GZA GeoEnvironmental Helena Hollauer I.D./O.D. 3" O.D. Hammer Wt. 140 LB. Hammer Fall Date Start 11/30/94 End 11/30/94 30" Location Other GS.Elev. Datum Equipment Installed Sample Information Sample Stratum R M K S Blows/ Ť H N W Depth Field Description & Classification Description Rec. Test Data No. (inches) Α 24/24 0-6 5-20 ND ' Dense, brown, fine to medium SAND, 1. little fine Gravel 23-30 NO EQUIPMENT INSTALLED FILL Dense, brown, fine to medium SAND, little fine Gravel В 18-24 ND \* 24 30 36 C 18/18 36-42 44-18 ND Dense, brown, fine to coarse SAND, some fine to coarse Gravel 23 42" END OF EXPLORATION 48 60 72 78 84

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Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background. "\*" indicates sample sent to laboratory for analysis. ND indicates None Detected.

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Boring No. G-5

A GeoEnv Ron Hol ntal ClareAnd	rironmenta man 1 Walsh	l, Inc.	Han	Casing  c /O.D.  nmer Wt.  nmer Fall	Sampler S.S. 3" O.D. 140 LB. 30"  Sample	Date		De	er R pth	Page 1 File No. Chkd. By: eadings Casing	of 1 41302.3  JMB  Stab. Time
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Rec. 18/18	(inches)	24-42	Test Data		& Classification	1	Description		M	Equipmen	
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ori	ng Co	GZA	GeoEn	vironmenta	l, Inc.		Casing	Sampler		Groun	dwate		eadings	
ore	man		Ron Hol	man		Тур	e	S.S.	Date	Time	De	pth	Casing	Stab. Tir
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7	-	A	24/24	0-6	9-10	ND *	Medium dense, brown-	orange, fine to				1.		
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6	一	С	18/18	36-42	48-65	ND	Very dense, brown-gre	y, fine to						
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Boring No.

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		-7033			···							Ŀ	Chkd. By:	ЈМВ
Bor	ing Co	. <u>GZ</u>	GeoEn	vironmenta	l, Inc.		<u>Casing</u>	Sampler		Grou	ndwat	er R	cadings	
For	eman		Ron Hol	lman		Тур	e	S.S.	Date	Time	De	pth	Casing	Stab. Time
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D P T	C B S L		Sai	mple Inform				Sample		Stratun	n	R M	Equipment	Installed
TH	N W G S	l	Pen./ Rec.	Depth (inches)	Blows/ 6"	Field Test Data	Description	& Classification	I	Description	n	K S		
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tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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### GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists G-9 Boring No. Page of 1 ENVIRITE THOMASTON, CONNECTICUT 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 41302.3 File No. Chkd. By: JMB Boring Co. GZA GeoEnvironmental, Inc. Casing Groundwater Readings Sampler Ron Holman Туре S.S. Date Time Depth Casing Stab. Time .³oreman GZA GeoEnvironmental 3" O.D. I.D./O.D. Rep. ClareAnn Walsh Hammer Wt. 140 LB. Date Start 11/29/94 End 11/29/94 30" Hammer Fall Location Other GS.Elev. Datum C B Sample Information Sample Stratum Equipment Installed R M K S Ť H Pen./ Description N W G S Depth Blows/ Field Description & Classification Test Data Medium dense, brown, fine to medium SAND, trace Organics ND 1. Α 24/24 0-6 3-8 15-50 NO EQUIPMENT INSTALLED 12 18 Medium dense, brown, fine to medium SAND, trace fine Gravel В 18-24 ND FILL 24 30 36 Very dense, grey, fine to coarse SAND and fine to medium GRAVEL C 18/18 36-42 17-75 ND 47 (cobbles) END OF EXPLORATION 48 €4 72 78

R e m a r k

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 Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background. "" indicates sample sent to laboratory for analysis. ND indicates None Detected.

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Boring No.

### GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists P-1 Boring No. Page of 1 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 ENVIRITE THOMASTON, CONNECTICUT 41302.3 File No. Chkd. By: **JMB** Groundwater Readings Boring Co. GZA GeoEnvironmental, Inc. Casing Sampler S.S. Time Depth Casing Stab. Time Foreman. Ron Holman Date Туре I.D./O.D. 3" O.D. GeoEnvironmental 140 LB. Řер. ClareAnn Walsh Hammer Wt. Date Start 12/1/94 End 12/1/94 Hammer Fall 30" Location Other GS.Elev. **Datum** Sample Information **Equipment Installed** D P T H Sample Stratum R M K S S L N W G S Blows/ Pen./ Rec. Depth (inches) Field Description & Classification Description No. Test Data 24/24 0-6 2-2 0.2 \* Loose, black TOPSOIL, trace Organics TOPSOIL 1. Α 6-7 6" NO EQUIPMENT INSTALLED 12 18 FILL Loose, dark-brown, fine to coarse SAND, trace Silt В 18-24 ND • 30 36 18/18 Medium dense, fine to coarse SAND and fine to medium GRAVEL C 36-42 8-8 ND 5 42" END OF EXPLORATION 66 78 84

 Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values. \*\*\* indicates sample sent to laboratory for analysis. ND indicates None Detected.

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Boring No.

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	_	. 622		vironmenta	i, inc.		Casing	<u></u>		T			<del></del> _	C. L 777
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36												1 1		
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R e m		1. Soil	samples	field scree	ned for vol	latile organic	compounds with a 10.0 tector (PID). PID value	eV portable Thern	no Environs	nental				

per million (ppm) above background. "" indicates sample sent to laboratory for analysis.

ND indicates None Detected.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 I	Nack I	Road Connec	NVIR( neers/G		TAL, IN	C. ital Scientist	5	THOMASTO	ENVIRITE DN, CONNI	еспсит		P	Soring No. Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page 1 Page	P-3 of 1 41302.3 JMB
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tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

### GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists P-4 Boring No. Page 1 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 ENVIRITE THOMASTON, CONNECTICUT 41302.3 File No. Chkd. By: **JMB** Groundwater Readings Boring Co. GZA GeoEnvironmental, Inc. Casing Sampler S.S. Time Depth Stab. Time Foreman Ron Holman Турс Date Casing 3" O.D. **GZA** I.D./O.D. GeoEnvironmental 140 LB. Řер. ClareAnn Walsh Hammer Wt. Date Start 12/1/94 End 12/1/94 30" Hammer Fall Other Location GS.Elev. Datum CB SL NW GS Sample Information Equipment Installed Sample Stratum T H Pen./ Rec. Depth (inches) Blows/ Field Test Data Description & Classification Description No. 24/24 0-6 3-16 ND ' TOPSOIL Α Dense, black TOPSOIL, trace Organics 1 25-22 6" NO EQUIPMENT INSTALLED 18 ND . FILL В 18-24 Dense, brown, fine SAND, trace fine 30 36 C 18/18 36-42 21-51 ND Very dense, dark-brown SILT, trace fine to coarse SAND 72 42" END OF EXPLORATION 48 60 66 72 78

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tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background. "a" indicates sample sent to laboratory for analysis. ND indicates None Detected.

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tı Tre:	rat adi	tific ings	ation have	lines been ma	represen	t approxi	imate bound	daries between soil itions stated. Flu	types, transitions of ground	ons may b undwater	e gradua may occu	l. N	lat	er	level	
fac	cto	ors t	han t	hose pr	esent at	the time	measureme	ents were made.			, 5000		Г	- `		

Boring No.

# GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

# ENVIRITE THOMASTON, CONNECTICUT

Boring No	<b>)</b> .	P-	6
Page	1	of	1
File No.		413	02.3
Chkd. By:		JМ	B

P-6

_	3or	ing Co	. GZ/	A GeoEn	vironmenta	l, Inc.			Casing	Sampler		Grou	ndwat	er R	eadings	
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۱	D	ÇВ		Sar	nple Inform	nation	<del></del>	]	S	ample		Stratun	n	R	Equipmen	t Installed
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	R		I. Soil	samples	field scree	ned for vo	latile organic	compoun	ds with a 10.0	eV portable Therr	no Environn	nental				
	m a		lr P	strumen er million	ts Model 58 (ppm) abo	80B photoi	ionization de ound. "*" in	tector (PII dicates san	D). PID value nple sent to la	s represent meter boratory for analys	response in sis.	parts				
	r k	:	N 2. Aug	D indicater	tes None D al at 52" de <sub>l</sub>	etected. pth.			-	• •						
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tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

27 !	Jack R	hen			TAL, IN	C. Ital Scientist	5		F	NVIRITE			1	Boring No. Page 1	P-7 of 1
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	tion				-/-/-	Oth						<del> </del>		<b>†</b>	<del>                                     </del>
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			Sar	mple Inform		·	T	S	ample	- 1	Stratun	1	R	Equipment	t Installed
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أ					10-20		little Or	ganics, trace fin	e Gravel	1					
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Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental
Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts
per million (ppm) above background. "" indicates sample sent to laboratory for analysis.
ND indicates None Detected.
 Auger refusal at 60" depth.

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tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. Boring No.

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e m		l ir	istrumeni	ts Model 5	80B photoi	onization de	compounds with a 10.0 tector (PID). PID value	es represent meter r	esponse in r	ental parts				
a r		D	er millior	i (ppm) abi tes Non <mark>e</mark> D	ove backer	ound. """ in	dicates sample sent to la	boratory for analysi	ıs.					
k														
 Ktra	ţific	ation	lines	represen	t approxi	mate boun	daries between soil	types, transiti	ions may b	e gradua	<u>.</u> , i	late	rlevel	
i read	inas	have	been ma	de at tii	nes and ເ	ınder cond	itions stated. Flu ents were made.	ctuations of gro	pundwater	may occu	r aue	. 10	other	D 0

P-8

Boring No.

# GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

# ENVIRITE THOMASTON, CONNECTICUT

Boring No. P-9 Page 1 1 File No. 41302.3

		7005										C	hkd. By:	<b>J</b> MB	
	_	GZA	GeoEnv	vironmenta	l, Inc.		<u>Casing</u>	Sampler		Grou	ndwate	er Re	Readings		
,	eman		Ron Hol	man		Тур	·	<u>S.S.</u>	Date	Time	De	pth	Casing	Stab. Time	
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	Location GS.Elev.			Datum		Oth	er				<u> </u>		<u></u>	<u> </u>	
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H	GS	No.	Rec.	(inches) 6		Test Data		<del></del>	<del></del>			K S		-	
	$\vdash$	_A	24/24	0-6	8-13	ND •	Dense, brown, fine SA medium Gravel, trace	ND, little Organics	İ			1.			
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m a	,	Ins	strument r million	s Model 58 (ppm) abo	0B photoi	ionization de ound. *** in	compounds with a 10.0 tector (PID). PID value dicates sample sent to la	es represent meter re boratory for analysis	esponse in	parts					
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stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

Ron Hoental ClareA (2/94 S. S. Pen./ Rec.	Environmenta Holman  Ann Walsh  End	1, Inc.	-	<u>Casing</u>	Sampler		Carre			
ental ClareA 2/94 S. Pen./ Rec.	Ann Walsh End 1	12/2/94	1.D.,	e			Groun	idwater F	Readings	
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Si Pen./ Rec.		12/2/94	Han	nmer Wt.	140 LB.					
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Boring No.

# GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

## ENVIRITE THOMASTON, CONNECTICUT

Boring No. R-1 Page 1 of 1 41302.3 File No. Chkd. By: **JMB** 

Boring Co. GZA GeoEnvironmental, Inc.								Casing	Sampler		Grou	ndwater	Re	adings	
	eman	-	Ron Hol						S.S.	Date		Depti			Stab. Time
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GS.	Elev.			Datum	1								_		
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-		В	<u> </u>	18-24	<b></b>	0.2 *	Medium trace fin	n dense, brown, ne Gravel	, fine SAND,		FILL				
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a		2 PIE	er millior D indica	n (ppm) aboutes None D	ove backgr Detected.	ound. "" in	dicates sar	mple sent to lai	eV portable Thermes represent meter in boratory for analys	sis.	_				

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

R-1

#### GZA GEOENVIRONMENTAL, INC. R-2 Boring No. Consulting Engineers/Geologists/Environmental Scientists Page of 1 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 ENVIRITE THOMASTON, CONNECTICUT 41302.3 File No. Chkd. By: **ЈМВ** Groundwater Readings Boring Co. GZA GeoEnvironmental, Inc. Casing Sampler S.S. Date Time Depth Stab. Time oreman? Ron Holman Туре Casing I.D./O.D. 3" O.D. GeoEnvironmental Rep. Cl 140 LB. ClareAnn Walsh Hammer Wt. Date Start 11/30/94 End 11/30/94 Hammer Fall 30" Other Location GS.Elev. Datum Sample Information Stratum Equipment Installed CB Sample R M K S S L N W G S Depth (inches) Blows/ Ή Pen./ Rec. Field Description & Classification Description Test Data No. 7-14 0.3 \* 24/24 Very dense, brown, fine SAND, little fine Gravel 1 Α 0-6 2. 37-44 NO EQUIPMENT INSTALLED 12 FILL 18 Very dense, grey-black, fine to coarse SAND and fine to coarse GRAVEL (cobbles) ND \* В 18-24 30 36 END OF EXPLORATION C 0/0 36 No sample; spoon refusal 48

R m a

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78

- Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background. "a" indicates sample sent to laboratory for analysis. ND indicates None Detected.
   Elevated background readings due to vapors from Envirite building.

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water leve readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. Water level

Boring No.

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Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

ZA icoEnvironmen	Al Augu ntal Helena l 7/94	Augustine  ena Hollauer  End  Datum  Sample Inform/ Depth (inches)	11/17/94	Han	/O.D. nmer Wt. nmer Fail er	Sampler S.S. 3" O.D. 140 LB. 30"  sample & Classification  grey, fine to coarse	Date	Groun Time Stratum Description	De		hkd. By:	JMB Stab. Time
Foreman GZA GEOEnvironmen Rep. Date Start 11/17 Location GS.Elev. DC CB SL FINW H GS No. A  A  A  A  A  A  A  A  A  A  A  A  A	Al Auguntal Helena l 7/94  San Pen./ Rec.	Datum Sample Inform/ Depth (inches)	11/17/94 n mation Blows/ 6" 4-14	I.D. Han Oth Field Test Data	Description  Medium dense, brown coarse SAND, some fi	S.S.  3" O.D.  140 LB.  30"  Sample & Classification		Time	De	R M K S	Casing	
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GeoEnvironmen   Cep.	Helena I 7/94 San Pen./ Rec.	Datum Sample Inform/ Depth (inches) 1/24 0-6	mation Blows/6" 4-14	Han Han Oth Field Test Data	nmer Wt.  nmer Fall  er  Description  Medium dense, brown coarse SAND, some fi	140 LB. 30* Sample	Г			K S	Equipmen	t Installed
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Cocation   GS.Elev.   D   C B   S L   N W   No.   A   A   A   A   A   A   A   A   A	Sar Pen./ Rec.	Datum Sample Inform/ Depth lec. (inches)	mation Blows/6" 4-14	Field Test Data	Description  Medium dense, brown coarse SAND, some fi	& Classification	Г			K S	Equipmen	t Installed
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18 B 24 30 36 C 42 48 54 60 66		18-24						FILL				
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48 54 60 66	18/18	/18 36-42	29-33	ND	Very dense, grey, fine SAND and fine to coar	to coarse						
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GZA GEOENVIRONMENTAL, INC.

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. R-4

Boring No.

7 N	lack R	Road	NVIRC neers/Ge		I'AL, INC	IC. ntal Scientists	5	THOMASTO	ENVIRITE	B Necoccit		1	Boring No.  Page 1  File No.	1 of 41302
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	Co	GZ/	GeoEn	vironmenta	al. Inc.		Casing	Sampler		Grou	ndwat	_	Readings	
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	C B S L		Sar	mple Inform	nation		Ţ;	Sample		Stratun	n	R M	Equipmen	t Installed
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†	Ť	Α	24/24	0-6	5-5	ND *	Medium dense, brown SAND, little Silt, trace	n. fine to medium				1.		•
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ᅡ	$\Box$						(roots)			i	ļ		NOEC	UIPMENT
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ł	-	<u> </u>	16,10	302	10-12	112	SAND, little Silt, trace (roots)	: Organics		42"	ļ		1	
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		1. Soil	samples	field scree	ned for vo	iatile organic	c compounds with a 10.0 etector (PID). PID value dicates sample sent to la	eV portable Therm	10 Environ	mental				

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

# GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

### ENVIRITE THOMASTON, CONNECTICUT

Boring No	٠.		R-6
Page	1	of	1
File No.		413	02.3
Chkd. By:		JМ	В

R-6

Boring No.

30ri	oring Co. GZA GeoEnvironmental, Inc.						Casing	<u>Sampler</u>		Grou	ndwate	er R	adings	
Fore	man		Al Augu	stine		Тур	c	S.S.	Date	Time	De	pth	Casing	Stab. Tim
gZ/	l Easta	onmen				I.D.	/O.D.	3" O.D.						
Rep.	CUAL	onmen	ai Helena I	Tollauer		Нап	nmer Wt.	140 LB.			-			
Date	Start	11/18	/94	End 1	1/18/94	Han	nmer Fall	30"						
Loca	tion					Oth	er							
GS.I	Elev.			Datum	ı									
D P	CB		Sar	nple Inform	nation		s	ample	ţ	Stratun	n	R	Equipmen	Installed
D P T H	CB SL NW GS	No.	Pen./ Rec.	Depth (inches)	Blows/ 6*	Field Test Data	Description	& Classification	1	Description	n	RMKS		
		Α	24/24	0-6	6-10	3.9 *	Dense, brown, fine to clittle fine to coarse Gra	coarse SAND,				1.		
					27-38		Organics (roots)	ivel, irace	ľ					
6							]						NO EQ	UIPMEN ALLED
12							]			FILL			11421	ALLED
**				_										
18				_										
		В		18-24		3.0 *	Dense, brown, fine to clittle fine to coarse Gra	oarse SAND,						
24							Organics (roots)	,	1		l			
									ŀ					
30				<del></del> ,								1		
												Ì		
36			40./40	-	2/2/									
		С	18/18	36-42	26-21	ND	Dense, grey-brown, fin SAND, some fine to co	e to coarse arse Gravel						
42					17		(cobbles)		<u> </u>	END O				
									E	XPLORA	HOLL	۱		
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tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

27 ! Ver	Naek F	Road Connec	NVIRO		TAL, IN	C. ital Scientist	5	THOMASTO	ENVIRITE ON, CONN	ЕСПСИТ			Boring No. Page 1 File No.	41302.3
<u> </u>				<del></del>									Chkd. By:	JMB
	-			vironmenta	il, Inc.		Casing	<u>Sampler</u> S.S.	Date	T			Readings Casing	Stab. Time
GZ	man		Ron Hol	man		— Тур	e /O.D.	3" O.D.	Date	Time	De	pth	Casing	State. Time
Geo	Enviro	onmen	tal ClareAn	- Wolch			nmer Wt.	140 LB.	<del></del>	+				
Rep		11/23			11/23/94		nmer Wt	- 140 LB.	<del></del>	+				
1	ation	11/23		Eliq	11/2/74	Oth							<del> </del>	
(	Elev.			Datum	······································	<u> </u>	C1		<u> </u>	اـــــــــــا				<u>!</u>
_			Sar	nple Infor			Τ	Sample	T	Stratum	,	R	Equipmen	t Installed
D P T H	CB SL NW		Pen./	Depth	Blows/	Field	1	& Classification		Description		R M K S		
<u>H</u>	GS	No.	Rec.	(inches)	6"	Test Data						⊢	<b>{</b>	•
		Α	24/24	0-6	5-6	0.1 *	Medium dense, dark-l	brown TOPSOIL		TOPSOI	L	1.	·	
6					7-5		4		-	6*			NO FO	I IIDMEN TE
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	$\vdash$				 		1		i					•
18	$\vdash$			10.24	<u> </u>	NTD +			ł			Ì		
		В		18-24		ND *	Medium dense, browr SAND	i, tine to medium		FILL				
24					}	<del></del>	-							
							-		ļ					
30							1							-
	$\vdash$			<del></del> -			1							
36		С	18/18	36-42	6-8	0.1	Medium dense brown	fine SAND	l					
/			10/10	30 .2	8		Medium dense, brown trace medium Gravel stone)	(processed	1	42"				
42						<u>-</u>	1		<u> </u>	END O	F			
		_					1		] ]	EXPLORA	NOIT	Ì		•
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R		1. Soil	samples	field scree	ned for vo	latile organic	compounds with a 10.0	eV portable Therm	no Environr	nental				
m a		Ir P	strumen r million	ts Model 50 (ppm) abo	BUB photoi	onization de ound. """ in	compounds with a 10.0 tector (PID). PID valudicates sample sent to be	es represent meter r aboratory for analysi	response in is.	parts				
r k		N	D indical	tes None D	etected.									

stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

#### GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists Boring No. R-8 Page ENVIRITE THOMASTON, CONNECTICUT 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 File No. 41302.3 Chkd. By: **JMB** Groundwater Readings Boring Co. GZA GeoEnvironmental, Inc. Casing Sampler Foreman. S.S. Date Time Depth Casing Stab. Time Ron Holman Type **GZA** I.D./O.D. 3" O.D. GeoEnvironmental Rep. ClareAnn Walsh 140 LB. Hammer Wt. Date Start 11/23/94 30" End 11/23/94 Hammer Fall Location Other GS.Elev. Datum D P T H Sample Information Sample Stratum Equipment Installed Blows/ N W G S Depth (inches) Pen./ Rec. Field Description & Classification Description No. Test Data Medium dense, dark-brown TOPSOIL, trace Processed Stone ND \* TOPSOIL 1. Α 24/24 0-6 8-7 6 8-9 NO EQUIPMENT INSTALLED 12 18 18-24 ND ' FILL В Medium dense, brown, fine SAND 24 30 C 18/18 36-42 29-20 ND Dense, brown, fine SAND, little Processed Stone 42" 18 42 END OF EXPLORATION 48 60 66 78

 Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background. "" indicates sample sent to laboratory for analysis. ND indicates None Detected.

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Itratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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#### GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists R-9 Boring No. 1 Page of ENVIRITE THOMASTON, CONNECTICUT 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 File No. 41302.3 Chkd. By: **JMB** Groundwater Readings Boring Co. GZA GeoEnvironmental, Inc. Casing Sampler S.S. Stab. Time ?oreman Ron Holman Type Date Time Depth Casing I.D./O.D. 3" O.D. **GZA** GZA GeoEnvironmental ClareAnn Walsh 140 LB. Hammer Wt. Date Start 11/29/94 End 11/29/94 Hammer Fall 30" Location Other GS.Elev. Datum R M K S Sample Information Sample Stratum Equipment Installed N W G S Depth (inches) Field Ť Pen./ Rec. Blows/ Description & Classification Description Test Data No. ND • 1. 24/24 0-6 5-7 Medium dense, brown, fine to medium SAND, trace fine Gravel Α 9-10 NO EQUIPMENT INSTALLED FILL 12 18 В 18-24 ND \* Medium dense, brown, fine to medium SAND, trace fine Gravel 24 30 3/ Medium dense, brown, fine to medium SAND, trace fine Gravel C 18/18 36-42 7-8 ND 9 42" 42 END OF EXPLORATION 48 66 72

R e m a r k

 Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background. """ indicates sample sent to laboratory for analysis. ND indicates None Detected.

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level feadings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

# GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

## ENVIRITE THOMASTON, CONNECTICUT

Boring No	).		R-10
Page	1	of	1
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R-10

Boring No.

lor	ing Co	o. GZ/	A GeoEn	vironmenta	ıl, Inc.			Casing	<u>Sampler</u>		Gr	oundw	vater F	Readings	
For	eman		Ron Ho	lman		Тур	e		S.S.	Date	Tim	e l	Depth	Casing	Stab. Time
GZ.	A E	onmen	to!			I.D.	/O.D.		3" O.D.						
Rep		onmen	tai ClareAn	n Walsh		Нап	nmer Wt.		140 LB.						
Dat	e Star	t 1 <mark>1/2</mark> 9	/94	End	11/29/94	Han	nmer Fall		30"						
Loc	ation					Oth	er				<u> </u>			J	]
$\vdash$	Elev.			Datum	1		,								
D	C B S L N W		Sa	mple Inform			Į		mple		Stra	tum	R	Equipmen	t Installed
D P T H	N W G S	No.	Pen./ Rec.	Depth (inches)	Blows/	Field Test Data		Description &	Classification		Descrip	tion	R M K S		_
	<u> </u>	A	24/24	0-6	4-10	ND *	Medium SAND, t	dense, brown, i	fine to medium				1.	1	
6		<u> </u>	ļ	ļ	12-14	<b></b>		· ·							
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18	-	В		18-24	<u> </u>	ND •	Medium	dense brown i	fine to medium						
ļ				102	-		SAND, t	race Organics						İ	
24		<del></del>													
		<del></del>	<u> </u>				1								
30							1								
36															
		С	18/18	36-42	14-18	ND	Very den	ise, brown, fine race Organics	to medium				1		
42				<u> </u>	30		,.	race Organica		·	42*		4		
				<u> </u>	<del> </del>	<b></b>					END EXPLO	OF RATIO	ON		-
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e m		τ.		ve Madal C	PAD mhata:	onization de	tanta (DII	DID indicat	V portable Thern represent meter	mernonen i	nmental n parts				
а Г		R	er million D indica	n (ppm) abo ites None D	ove backgro etected.	ound. "*" inc	dicates san	nple sent to lab	oratory for analys	is.	•				
l k															
tra	tific	ation	lines	represent	t approxi	mate bourk	daries be	etween soil	types, transit	ions may	be grad	lual.	Wate	er level	
read fact	ings ors t	nave than t	been ma hose pr	esent at	nes and u the time	under condi • measurem	ents were	tated. Fluc' e made.	types, transit tuations of gr	oundwate	r may oc	cur c	sue to T	o other	D 10

ĞΖ	A G	EOE	NVIŖ	<u>DNMEN</u>	ΓAL, IN	C. Ital Scientisti						В	Soring No.	_ 1	₹-1
			neers/Go	eologists/E	nvironmen	ital Scientisti		_	78 N / I PO PT 17			P	age 1	of	
Ver		Connec	ticut 060	66				THOMAST	ENVIRITE ON, CONNE	СПССТ		F	ile No.	413	02
,203	) 875-	-7033										C	hkd. By:	JMI	3
югі	ng Co	. <u>GZ</u> /	GeoEn	vironmenta	l, Inc.	<del></del>	Casing	Sampler		Grou	idwat	er Re	adings	<del>,</del>	_
	man		Ron Hol	man		Тур		<u>S.S.</u>	Date	Time	De	pth	Casing	Stab. Ti	m
Z/	i Enviro	onmen	tal				/O.D. 4-1/4"	3" O.D.					ļ		
lep.			ClareAn				nmer Wt.	140 LB.					<del> </del>	<u> </u>	_
		12/7/	94	End 1	12/7/94		nmer Fall						<del> </del>	ļ	_
	tion			Datum		Oth	er						<u> </u>	L	-
_	C P		Car	Datum nple Inforn	-		T	Sample		Stratum		ы	Equipment	Installed	_
	CB SL NW		Pen./	Depth	Blows/	Field	•	& Classification		Description		R M K	Equipment	Illistance	-
L	N W G S	No.	Rec.	(inches)	6"	Test Data	Description	- Chasmeanon				K S			
		Α	24/24	0-6	4-14	ND *	Dense, dark-brown To Organics	OPSOIL, trace		TOPSOI	L	1.			
6			<u> </u>		30-18				6						
			<b>_</b>				1						NO EQ INST	UIPMEN ALLED	T
2															
	$\dashv$		<u> </u>												
18	$\dashv$		<u> </u>	10.24		NTD #	D	NTD 6							
		В		18-24		ND *	Dense, brown, fine SA to coarse Gravel	IND, some line							
4	$\dashv$								ŀ			li			
ю	$\dashv$														
	-								İ						
6	寸	С	24/24	36-42	25-49	ND *	Very dense, brown, fir SAND and fine to coa	ne to medium							
					48-39		SAND and fine to coa	rse GRAVEL		FILL					
2		-													
ا،															
8															
4															
									ĺ						
									ļ						
ļ		D	24/0	60-84	11-10		No recovery; pushing to 84" depth	cobble; drilled							
6					11-12		_		l						
ŀ	$\dashv$														
2															
ŀ															
8	$\dashv$								[						
ŀ									1	08"					
4		Е	24/0	84-108	5-6		No recovery		<u></u> -	END O	F				
- 1					3-7		<b>'</b>		E	XPLORA'	ПОП	l			

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

# GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists

27 Naek Road Vernon, Connecticut 06066 (203) 875-7655

### ENVIRITE THOMASTON, CONNECTICUT

Boring No	٠.	1	R-12			
Page	1	of	1			
File No.		of 1 41302.3				
Chkd. By:	_	JM	B			

3or	Boring Co. GZA GeoEnvironmental, Inc.					Casing	Sampler		Grou	ndwate	r Re	adings			
For	eman		Ron Hol	man		Тур	e .	HSA	S.S.	Date	Time	De	pth	Casing	Stab. Time
GZ		onmen	on!	<del></del>	-	I.D.	/O.D.	4-1/4"	3" O.D.	12/8/94	1420	14	.6'	15.0°	0 hours
Rep			ClareAn:	n Walsh		Han	nmer Wt.		140 LB.						
Date	e Start	12/8/	94	End 1	2/8/94	Han	nmer Fall		30"					<u> </u>	
Loca	ation					Oth	er			L		<u> </u>			<u></u>
GS.	Elev.			Datum											
D	C B S L		Sar	nple Inforn	nation		1	S	ample	1	Stratun	n.	R M	Equipmen	Installed
D P T H	N W G S	1	Pen./ Rec.	Depth (feet)	Biows/	Field Test Data		Description of	& Classification		Description	n	K S		
		Α	24/24	0-0.5	4-6	10 *	Top 2":	Dark brown T	OPSOIL SAND, some	-			1.		
					11-15		Organic	i Diowii, iiii	e dante, some				2.		
		В		1.5-2.0		ND	Medium trace Sil	dense, brown,	fine SAND,					NO EQ	UIPMENT 'ALLED
		С	18-18	3.0-3.5	28-82	ND *			to coarre					11451	ALLED
•					88		SAND,	nse, brown, find ine to coarse ( oon (cobbles)	Gravel in the						
,		D	24/0	5-7	24-24	0.5	No recov	, ,			FILL				
					22-14		No reco	ery			FILL		<u> </u>		
		Е	24/6	7-9	14-14	2	Medium little Silt	dense, brown,	fine SAND,						
					8-6										
10		F	24/8	9-11	2-3	86 *	Loose, g	rey, fine to coa ittle Silt	rse				ŀ		
10					5-5		] SAIND, I	ittie siit		L	11.0'		3.		
		G	24/20	11-13	7-5	677	Medium	dense, grey-da	rk brown, fine pink and red		SAND A	۵D	3.		
_					8-8		Rubber	nu Sili, some	pink and red	h	SILT (RUBBI WASTI	ER			
		Н	24/18	13-15	11-11	455 *	Medium	dense, black, f nd fine GRAV	ine to coarse		13.0	,			
15					14-22				<i></i>	1					
••		I	24/12	15-17	26-26	307	Dense, d	ark grey, fine t	o coarse ium GRAVEL						
					12-18		3711121	no mie to mee	um old W LE	}	SAND A	JD.			
		J	24/14	17-19	16-19	329	Dense, d	ark grey, fine t	o coarse	1	GRAVE		ŀ		
					17-14		] SALVE &	na mie to coar	SC GIGIVEL	L	19.0'				
20							}			١,	END O	F			
20				I						Ι΄	LAI LOIGI	110.	}		
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per million (ppm) above background. \*\*\* indicates sampl ND indicates None Detected.

2. PID readings obtained indoors.

3. Waste material at approximately 11 to 13 feet below grade. 'indicates sample sent to laboratory for analysis.

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.

GZ	ZA G	EOF	NVIR(	ONMEN	TAL, IN	C. Ital Scientist						] :	Boring No.	R-13
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Vei	non, (	Conne	cticut 060	66				THOMASTON	, CONN	ECTICUT			File No.	41302.3
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3or	ing Co	. GZ	A GeoEn	vironmenta	ıl, İnc.		Casing	Sampler		Grou	ndwate	er R	eadings	
ron	man		Ron Ho	lman		Тур	e	HAND AUGER	Date	Time	De	pth	Casing	Stab. Time
ĞΖ	4		4-1			I.D.	/O.D.							
Ceo Rep	Ēnviro	onmen	ClareAn	n Walsh		Han	nmer Wt.							
Date	e Start	11/29	/94	End	11/29/94	—— Han	nmer Fall							
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SS.I	Elev.			Datum	n			_		<del></del> -	•			
D	C B S L		Sai	mple Inform	nation			Sample		Stratun	n	R	Equipment	Installed
D P T H	S L N W G S	No.	Pen./ Rec.	Depth (inches)	Blows/	Field Test Data		& Classification		Description	n	RMKS		
_	00	Α	I Roc.	0-6	-	ND •	Brown, fine to mediur	n SAND				1.		-
	$\vdash$		<del>                                     </del>		<del> </del>		1							
6			<del>                                     </del>		<del> </del>		1						NO EO	UIPMENT
			<del>                                     </del>				1						INST	UIPMENT 'ALLED
12			<del>                                     </del>		<del> </del>					FILL				
	$\vdash \vdash \vdash$													-
18	$\vdash$	В	<del>                                     </del>	10.24	<del> </del>	ND	Danua Gas to medius	- CANID						
		В	<del> </del>	18-24	<u> </u>	ND -	Brown, fine to mediur	n SAND		245				
24	$\vdash$		ļ							24"		2.		
			<u> </u>							END O EXPLORA	TION			
<b>3</b> 0														-
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Remark

Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background. "\*" indicates sample sent to laboratory for analysis. ND indicates None Detected.
 Unable to collect deeper sample due to overhead lines.

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level feadings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. R-13

### GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists Boring No. R-14 Page of 1 ENVIRITE THOMASTON, CONNECTICUT 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 File No. 41302.3 Chkd. By: JMB Groundwater Readings Boring Co. GZA GeoEnvironmental, Inc. Casing Sampler ?oreman Ron Holman Туре HAND AUGER Date Time Depth Stab. Time I.D./O.D. GZA GeoEnvironmental Řер. ClareAnn Walsh Hammer Wt. Date Start 11/29/94 End 11/29/94 Hammer Fall Location Other GS.Elev. Datum Sample Information Sample Stratum R M K S Equipment Installed Blows/ Depth (inches) Field Test Data Ť N W G S Pen./ Rec. Description & Classification Description No ND . 1. Α 24/24 0-6 Brown, fine to medium SAND NO EQUIPMENT INSTALLED SAND 12 18 Light-brown, fine to medium SAND, some fine Gravel В 18-24 ND · 24" 2. END OF EXPLORATION 30 36 48 60 66 72 R m

Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background. """ indicates sample sent to laboratory for analysis. ND indicates None Detected.

2. Unable to access with drilling rig due to slope and trees.

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level Feadings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. R-14

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tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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### GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists Boring No. B-5 Page of 1 ENVIRITE THOMASTON, CONNECTICUT 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 41302.7 File No. Chkd. By: Groundwater Readings 'oring Co. Casing Sampler Foreman Туре Date Time Depth Casing Stab. Time I.D./O.D. GeoEnvironmental Rep. Helena Hollauer Rep. Hammer Wt. Date Start 11/29/94 End 11/29/94 Hammer Fall Location Other GS.Elev. Datum CB SL NW GS Sample Information Sample Stratum R M K S Equipment Installed Blows/6\* Field Test Data Pen./ Rec. Depth (Ft.) Description & Classification Description No. Brown, fine to coarse SAND, some Silt, some coarse Gravel ND 1. NO EQUIPMENT INSTALLED 10 20 25 R 1. Soil samples collected 3" to 9" below grade using a hand auger. m

tratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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